The Mining Journal COMMERCIAL GAZETTE.

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 497.----Vol. XV.]

LONDON: SATURDAY, MARCH 1, 1845.

PRICE 6D.

INING MATERIALS.—TO BE SOLD, BY PUBLIC
AUCTION, on Tuesday, the 18th day of March, 1845, at the IVV BRIDGE CONLES MINE, in the parish of Ugborough, county of Devon, by Messrs. SKARDON and
N, the following very valuable MINING MATERIALS—viz.:

A WATER WHEEL, 24 Seet diameter, 10 feet 3 inches breast, with cast-iron rings,
ikets, and cylinder cranks; an 18 feet diameter WATER WHEEL, 2 feet 8 inches
ast, with drawing machine, drum, and one crasher attached; a capstan, with ask axid
d cast-iron sockets; shears, with pulleys and brasses; two bols, with gudgeons, chains,
sees, and draps complete; 190 fathoms of horizontal rods, 24-inch, round from; 190
homs ditto, 2-inch, square-iron; a large number of rod pulleys, and stands and brasses;
o sweep rods, loggerheads, brasses, comecting checks, pins, and chains; two penduns and wheel pit frames; three balance-bobs, with gudgeons, brasses, asddles, and
sprods; stayt fathoms of 19-inch capstan rope; a large bell and stand, a horse whim,
im, and other kibbles.

2 7-feet 10-inch windbores

SLATE QUARRIES FOR SALE.—TO CAPITALISTS.

O BE PEREMPTORILY SOLD, BY AUCTION, in the month of AFRIL next, by order of the First Mortgagee, under a power of sale, alloss previously disposed of by private contract, of which due notice will be given, ALL THOSE YERY VALUABLE AND EXTENSIVE

SLATE QUARRIES, situate in the particular of the country of CORNWALL.

To DELABOLE and TREGAVERN QUARRIES, situate in the particular of the country of CORNWALL.

The property possesses immense facilities for producing and shipping e, offering at the same time a safe and profitable investment, an incitation to Mr. Langford, of Boscastle, Cornwall; and plans of the time offices of Mesers, Finch and Neate, 57, Lincoln's Iun-fields.

RAZILIAN COMPANY.—The directors having resolved to make a CALL of ONE FOUND per share on the CATA BRANCA SHARES, the holders are requested to FAY the same at the office of the company, No. 6, Broad-street-buildings, on Thursday, Friday, or Saturday, the 13th, 14th, and 15th of March, between the hours of Eleven and Three; they are requested to send their vouchers at the same time, that the instalment may be endorsed thereon. All shares on which the call may not be paid, are liable to forfeiture.

A report of the directors may be had at the office of the company.

London, Feb. 27, 1845.

THE GENERAL, HALF-YEARLY MEETING OF THE
WEST CORK MINING COMPANY will be HELD at the George and Vallure
Tavera, Cornhill, in the city of London, on Thursday, the 6th day of March next, at One
viclex in the afternoon precisely, on the general business of the company, and also for
the election of two directors and one auditor; and take Notice, that every proprietor intending to become a candidate to fill the office of director or auditor, must, within fourteen days from the time of the insertion of this advertisement, signify by some writing
ander his hand, stating the place of his residence and addition (such writing to be left
within the same four-teen days at the office of the company, 39, Coleman-street, in the city
of London), his intention so to become a candidate.

By order of the board,
London, Feb. 4, 1845.

KELSTON BRASS AND COPPER MILLS, situate on the navigable part of the River Avon, between Bath and Bristol.—TO BE LET, with

office, 3, Mansion House-place, London.

CAUTION.—THE PATENT GALVANISED IRON COMPANY having ascertained that certain PARTIES are INFRINGING THEIR PATENT
by the MANUFACTURE and SALE of a SPURIOUS and COUNTERFEIT ARTICLE,
to the injury of the company and the destriment of the public, hereby give NOTICE,
that this COMPANY have the SOLE PRIVILEGE of manufacturing and selling IRON
COATED WITH ZINC, commonly called "Galvanised fron," and that they will inflict
the utmost PENALTIES of the law upon all PERSONS MANUFACTURING or SELLING
the same without their authority, as well as upon all persons buying or using any Galvanised from nor manufactured by them, or sold by their authority.

3, Mansion House-place, London, Jan. 24, 1845.

BY HER MAJESTY'S ROYAL LETTERS PATENT.

MOREWOOD and ROGER'S PATENT MICTAL.—This article was at first sold under the name of Galvanised Tin Plates, but the patentees finding that the public, in some instances, overlooking the word Tin, confounded the article with Galvanised Iron, and that the character of their metal has thereby sustained injury, are desirous of giving it a name so distinctive as to prevent such mistakes, and consequent disappointment to purchasers, a future. They, therefore, respectfully re-

T a PUBLIC MEETING of the Lords of, and Adventurers in,
TIN MINES in CORNWALL, held at Redruth, 25th February, 1845, the followRESOLUTIONS were unanimously adopted:—

RYE AND THOMAS, MINE AGENTS AND DEALERS
IN STOCKS, RAILWAY AND OTHER SHARES,
80, OLD BROAD-STREET, LONDON.

For further particulars address W. R. Jones, Esq., Loughor, Swansea.

STAFFORDSHIRE.

OAL AND IRONSTONE MINES.—TO BE SOLD, BY
AUCTION, in the month of MAY next, by Mr. CORBETT, auctioneer, Blaton, the
valuable FREEHOLD ESTATE and COLLIERIES, situated at Darlaston-green, adjoining to the Birmingham Canal and the Grand Junction Railway, containing about sixty
acres; and also the MINES and MINERALS under the same; together with the Endities, FITS, the very complete CEMENT-WORKS, FREESTONE QUARRY and
MACHINERY thereon.

N.B.—The Birmingham Coal Company are now sinking a shaft to prove the Ironstone
Mines, especially the Blue Flats, in the upper part of the estate—the lower part having
aiready been samiciently proved by the practical working of the same.

For further information apply to Mr. Rawlins, solicitor; Messra. Tyndall and Son, solicitors; Mr. Lawrence, as the Birmingham Coal Company's Offices, all of Birmingham,
Messra. Cope and Son, mine agents, West Browwich; or to the auctioneer, Bliston.

MPORTANT TO ENGINEERS AND OTHERS ENGAGED WITH WORK FOR RAILWAYS, GAS, AND WATER WORKS, &c.
PARK IRON-WORKS, SHEFFIELD.

SUPERINTENDENT.—WANTED, a PERSON to take the SUPERINTENDENCE of a RAILWAY and DOCK, in Carmarthenshire. He must be able, practically, to set out a new line, take levels, and make plans and sections of a railway, and also conversant with the locomotive department, gear, &c., connected with the same; ne will have under his general superintendence the business of the railway, and dock, and must have a knowledge of accounts and of reports to the board of directors. The candidate must be able to produce unexceptionable testimonials as to character, ability, &c., and to find security for £1000. The salary will not exceed £250 per annum. Applications to be made by letter only, addressed to Mr. John Bigg, secretary to the Llanelly Railway and Dock Company, Old Jowry Chambers, London, not later than Westernesses, the 12th of March next.

Lianelly Railway and Dock Company, Old Jowry Chambers, London, not later than Worknesday, the 12th of March next.

THE ELECTRIC TELEGRAPH, —COOKE AND WHEATSTONE PATENTERS.

The ELECTRIC TELEGRAPH has been adopted on the following LINES:—By ORDER, OF THE LORDS OF THE ADMIRALTY, on the South-Western Railway, as a GOVERNMENT TELEGRAPH from the ADMIRALTY, Whitehall, to PORTSMOUTH, above NINETY MILES.
On the same line, as a Commercial Telegraph from Nine Elms to the Port of South-ampton, 77 miles—with a branch to Gosport, 15 miles.
On the London and Blackwall Railway, "Single Way," 15 miles.
On the London and Blockwall Railway, "Single Way," 20 miles.
London and Dover Railway, from London to Stough, 16 miles—the Windsor Telegraph, Yarmouth and Norvich Railway, "Single Way," 20 miles.
London and Dover Railway, from Lunbridge to Maldstone, a "Single Way," 15 miles, Part of the Leeds and Manchester Railway.
London and Birmingham Railway—viz, from Northampton to Peterborongh—a "Single Unies" in different parts of England, Scotland, and Ireland.
Mr. Cooke is prepared to grant licences for the use or erection of the Telegraph for entire districts of country, where the boundary can be accurately defined.
Mr. Cooke will also undertake to erect a Telegraph in any part of the United Kingdom for a fixed amount.
For further particulars spply to W. Fothergill Cooke, Eaq. Kidbrooke, Blackhesih; or lo Robert Wilson, Eaq., solicitor, 1, Copthall-buildings, London.

TO RAILWAY COMPANIES, ENGINEERS, AND MACHINISTS.—FENTON'S ANTI-FRICTION METAL—a CHEAP SUBSTITUTE for BRASS in the STEPS and BEARINGS of STEAM-ENGINES and MACHINERY—posseeses the following ADVANTAGES compared with that metal:—Increased durability, diminished friction, and consequent saving in consumption of oil, cheapness in first cost, not only in price, but also by a less specific gravity. It has been in use for some time on many of the principal lines of railway in the country.

Ingots, at 66s, per cwt., may be obtained from the patentees.

FENTON and BOTT, 5, LOWER MOSLEY-STREET, Manche

Law Entelligence.

PROJECTED COMPANIES-LIABILITY OF DESCROES

PROJECTED COMPANIES—IJABILITY OF DIRECTORS

COURT OF EXCERCIPES—PUB. 24-25.

Dennity and Another to Regional and Ocale—This was an action to recover the sum of 60t for work done, in 1843, to certain premises in High-street, Whitechapel, with the view of preparing them for occupation by a projected company for the distilling of British hollands; and the question was, whether the defendants, or either of them, could be made fiable for the debt of the company, by reason of their connection therewift as directors. This question occupied the court a great part of two days, but the principal facts may be very succinctly stated:—In the beginning of 1843 the defendants, Sir J. Anderson, and a Mr. Cox, together with three other gentlemen, put forth a prospectus for the establishment of the "British Hellands Distillery Company," in which they figured as directors. This document bore one clause, to the effect, that no director or shareholder should be liable for more than his subscribed capital, and that no order to any tradesman should be given except on that condition. At first the establishment was located in Old Broad-street, where the defendants attended at the weekly meetings; but the premises in Whitechapal being faken soon afterwards, an order was given by "the board," on the 2d of faugust, to one Goldie, to "set them in order." That order was by him transmitted, as he swore, to the plaintiffs, with an intimation of the names in the diffrection, including those of the defendants, as the parties responsible for payment; and the work was begun on the 4th of August, and continued for several weeks, in respect of which this action was broken up, and a new one started by the defendant paid off. In answer to the vidence of the plaintiffs, which ranged over a very wide field, the defendants put into the box their secretary, whose books showed that Mr. Ogle had resigned the direction on the 5th of July, and Mr. Bergonzi just before the order was given for the execution of this work, and whose impression was that Mr. Goldi

The jury returned a verdict for the plaintiffs—Damages, 60%.

IMPROVED SYSTEM OF VENTHATION.—There has lately been deposited in the Royal Polytechnic Institution a series of models, termed "deflecting roofs, or cowls," illustrative of an invention which has been patented by Mr. Kite, coal merchant, with a view to a more perfect system of ventilation, and likewise a cure for smoky chimneys. The models are exceedingly simple, but truly philosophical, in their construction. The deflecting roof is intended to supersede the use of chimney-pots (the employment of which tends so much to destroy the beauty of our noblest buildings), and will form not only a pre-rentive against smoke, but actually an ornament to the building. The roof consists merely of a number of lowerse, or deflectors, which present their oblique surfaces to the wind, and are so arranged that, when the wind blows against them, it is deflected from its original course, and passes directly across the top of the flue, carrying with it a portion of the smoke and maintaining a partial vacuum in the roof. The models are explained daily by Mr. Phillips, the practical engineer to the institution, who shows, in a most clear manner, that, by Mr. Rite's invention, either an upward or downward current of air can be obtained while the wind is blowing in any direction—proving at once its perfect adaptation to the ventilation of ships and buildings generally; there are several pseuliarities connected with the invention, which we recommend to the inspection of every person who may feel an interest in these matters. Since the attention of the legislature has been directed to the health of large towns, some disastrous results of inefficient ventilation have been brought to light, proving pretty clearly that the maximum of disease is owing to the vitiated and unchanged state of the air in the crowded apartments of the lower classes. The commissioners who have been appointed to examine the various witnesses, since the bundered as to the best mode of remedying this cryin

plicity will be at once apparent; and also its value to the royal and commercial mavy, as, by its means, a most perfect ventilation can be managed through every part of the ship.

STEAM MARINE MAIL.—Our ingenious correspondent, Mr. A. T. J. Martin, of Penzance, has communicated to us the following curious plan for expediting mavigation:—He considers that the maximum of speed on water has by no means been attained, and, to the furtherance of that object, makes his present suggestions. He proposes that a hollow hemisphere, or nautilus, with a rudder, but without a fixed keel, be made, of twenty or thirty feet diameter, and to float within a revolving paddle-wheel—the paddles to be semicircular plane (half) rings, one foot broad (that is to say, inner diameter 32 ft. and outer diameter 32 ft. and outer diameter 32 ft. and outer diameter of the floating vessel—just like the meridians of longitude on a common globe. One circular ring to strengthen and stay the whole of the revolving planes, and to serve as a keel, being in a line with the rudder, which is aft; such keel being somewhat like the equator between the poles of an ordinary terrestrial globe. Other stays, like the parallels of latitude, may, if necessary, be added; but it would, perhaps, be advisable to divide the water in this way as little as possible. He proposes sixteen as the number of such revolving circular oars—the arch, or circle, being invariably the strongest form into which matter can be wrought. The pressure on the centres of this revolving wheel on each side of the diameter, in the fore or aft direction, caused by the resistance of the water, would produce fore and aft motion of the floating vessel, ballasted with her engine, and in the usual way. The central funnel, or masta, would be fastened only at their ends to the revolving centres at the side of the semi-sperical ship. It is stated that there will be no reason why the water flowing aft should float the vessel in that direction, or in effect remain at a stand still, any more than with o

LAMERT ON DEBILITY, NERVOUSNESS, AND ALL DISORDERS ARISING FROM EXCESS, &c.

"He who in pleasure's downy arms A hero lives, and justly can Ne'er lost his health, or youthful charms, Exclaim, 'In me behold a man!' Lust published, the Seventh Edition, in a scaled envelope, price 2s. 6d.; or free by post to any address, for 2s. 6d.

"ELF-PRESERVATION: A Popular Essay on those concealed discreters of the concrative system, orichastic in solitary habits, youthful excess."

LF-FKESERVATION: A Popular Essay on those concealed listorders of the generative system, originating in solidary habits, youthful excess, titions, and terminating in local and constitutional weakness, nervous debility, metacity, genorrhees, syphills, indigestion, insanity, consumption, &c., with plain nos for their treatment and cure. Hustrated with cases. By \$AMUEL LA'MERT, no surgeon, 9, Bedford-street, Bedford-square, London; Honorary Member of the Hospital Medical Society, Licentiate of Apothecaries Hall, London, &c. exclusions of lover, hasband, and parent, are the inherent privileges of ad, and, but for the accidents of mortality, would be awarded equally to all. To mong others, this casay addresses itself; and, by its perusal, many questions may factorily adjusted that admits of no appeal, even to the most confidential friend."—

d Gazetle.

Staff-rd Gazetle.

1 Sold wholesale by S. Gifbert, 51 and 52, Paterinoster-row; retail by Starie, 23, Tichborne street, Quadrant; Hannay and Co., 63, Oxford-street; and Gordon, 146, Leadenhall-street At home daily, from nine to three, and from five till eight; and immediate replies sen to all letters, if accompanied by the consultation fee of £1 for advice, &c.

9, Bedford-street Bedford-square, London.

9, Bedford-street Bedford-square, London.

Just published, the Fourteenth Edition, price 2s, 6d.; free by post, 3s, 6d.

THE SILENT FRIEND: a medical work, on Human Frailty,
Nervous Deblity, constitutional weakness, excessive indulgence, &c.; with Observations on Marriage, &c. By R. and L. PERRY and Co., surgeons, London. Published by the authors, and sold at their residence; also by Strange, 21, Paternoster-row; Hannay and Co., 63, Oxford-street; Noble, 109, Chancery-laue; Gordon, 146, Leadenhall-street; Parkiss, Compton-street, Soho, London.

The CORDIAL BALM of SYKIACUM is a stimulant and renovator in all spasmodic complaints. Nervous debuilty, indigestion, asthma, and consumption, are gradually and imperceptibly removed by its use, and the whole system restored to a healthy state of organisation. Sold in bottles, price 11t, and 3s.

PERRY'S PURITYING SPECIFIC PILLS have long been used as the most certain remove for scorousic complaints of every description, cruptions of the skin, pimples on the face, and other disacrecable affections, the result of as impure state of the blood. These pills are perfectly free from mercury, capaiva, and other deleterious drugs, and may be taken with safety without interference with or loss of time from business, may be a be bled upon in every instance. Sold in boxes, at 2s. 9d., 4s. 6d., and 11s. etc. by all medicine vendors.

Mo Theory and Co. may be consulted at their resistence, 19, Berners-street, Oxford-tree.

Transactions of Scientific Bodies. .

The second secon		A THE PLEASE OFFICE		See		
SOCIETY.	OF REAL PROPERTY.	PLACE OF MEE		DAY.	MOUN	N
Modical and Chira	argical	Berness street	T	needdy	84	P. No.
Royal Asiatic		. Grafton-street	Se	turday	. 25	P.M.
Royal Entomolog	cul 17.	Old Bond-stree	t Me	onday	. 8	P.M.
Chemical	verrier.Se	ciety of Arts. A	delphi Mo	onday		
Medical	Be	olt-court, Fleet-	street Me	onday	. 8	P.M.
Linnson	80	bo-square	To	esday	. 8	P.365
Horticultural		Recent-street	Tu	esday	. 3	P.36
Givil Engineers				esday		
Society of Artis		elphi		ednesday		2.00
Zoological		Hanover-squar		ursday		P.M.
Royal	Sor	merset House .		ursday		P.M.
Antiquaries		merset House .				P.M.
Royal Institution -		emario-street .				
Botanical		lford-st., Coven		iday		P.M.
Royal Botanic		zent's-park				
Westminster Medi		Sackville-street		urday		P.M.
Mathematical		spin-street, Spi				P.M.
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GEOLOGICAL SOCIETY.

The anniversary meeting of this society was held at their apartments, at Somerset-house, on Friday, the 21st-ult., the PRESIDENT (H. Warburton, Esq.) in the chair, when the Wolfaston gold medal was presented to John Phillips,

works on the science, and nephewor OPs. Smith, one of the earliest geological observers which this country has produced, and who was the first recipion of the same homour. The residue of the Wildston fund, amounting to about 207, was awarded to Mr. Baime, of the Cape of Good Hope, to whom science is indebted for the discovery of some bi-dential registees, on whose singular attractions are considered from the discovery of some bi-dential registees, on whose singular attractions guishes the labours and the writings of this celebrated palesontologist.

The Prazouser incidentally mentioned this, in future, the modal in question would not be formed of gold, but of pallscilium, in homour of Iv. Wollacton, who samula affektes, which will got the control of the control

proposing the "Health of M. de Verneull," who was present on this occasion, as their representative.

M. DE VERREUL followed up, in an admirable reply, the sentiments of his friend Mr. Murchison, and, among other remarks, observed, with reference to the opinions of the geologist of his native country, that they entertained the most deferential respect for the geologists of England, and looked on the distinguished men by whom he was now surrounded as their masters and instructors in the sciences. So cordial, he added, was the friendship and good feeling entertained by the enlightened portion of the French nation towards this country, encouraged and cherished as this feeling was by the enlightened monarch of France, that, in spite of all the efforts of factions or interested writers to excite a war between England and France, he had no hesitation in declaring, from the numerous ties which united the most enlightened and influential portion of both nations, that war between England and France was impossible, and he begged to congratulate both countries on a state of things so desirable to the best interests of mankind. (Great applause.)

Mr. Lykli followed next, by eulogising the liberality of another country, the United States of America, is promoting geological surveys and the diffusion of geological science. No country bad, at so early a period of its history and its power, effected so much for geological science as the American republic. The hammer of the geologist had preceded the axe of the backwoodsman, and has tent had been pitched among the huts of the aborigines. The various State

land vied with each other in the premation of geological exploration and inquiry, and this patronage had produced as numerous and highly distinguished a school of geologists, that when recounty the council of the Geological Society wished to elect two honorary members from the United States, they had the greatest difficulty in confining their choice to twee from the number of American geologists who were found deserving of such an Romour.

The toast was replied to by the Rev. Mr. Collara, from America, who dwelt, in a most impressive manner, on the power of philosophy to cument the bonds of amity and good feeling between nations as well as individuals. He bere testimony to the zeal of his own, country in the cause of geology, and instanced, in particular, the states of Maine, New Jersey, and Massachusetts, as having spent large sums in making geological surveys, publishing these, and distributing them gratuitously among the community. He next dwelt on the labours of American geologists—Hickneock, Rogers, and others—and observed, that such was the desire for this science in America, that Mr. Lyell's lectures had been attended by 4000 persons, and that 8000 would have been present, if the place could have contained them.

The toast of the "Royal Agricultural Society" was acknowledged by Sir J. JOHNSTONE, who dwelt on the labours of Liebig, Daubeny, and Buckland, as having contributed essentially to the improvement of agriculture.

The toast of the "University of Oxford" was responded to by Dr. Buckland, as having contributed essentially to the improvement of agriculture.

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The toast of the Seconomic Geology.

The toast of the Caronomic Geology in the Leats and Isbours of Professor Over, of Dr. Falconer and Captain Cantley, and of M

Fas. 26.—The Passersext (Mr. Hodwan) in the chair.

1. A paper was read by Mr. Lyell, "On the Miocene Tertiary Strata of Maryland and Virginia, and North and South Carolina." These rocks of the middle tertiary period are chiefly exhibited between the hill country and the Atlantic and form a band of low and nearly level country, nearly 150 miles wide, and not 100 feet high. They are assumed to belong to this period, because they are seen resting on the Ecoene deposits, and exhibit about the same proportion of recent species. The United States Miocene beds consist chiefly of incoherent sand and clay, and the sandy beds, otherwise barren, have often have often been fertilized by the use of shell marl. In the subsurbs of Richmond, Virginia, there is, however, a remarkable bed of siliceous sand, derived from the cases of infusorial animalcules. The paper was accompanied by comparative tables and list of the fossils.

2. A paper, also by Mr. Lyell, "On the White Limestone and other Ecoene Tertiary formations of Virginia, South Carolina, and Georgia" The Ecoene beds extend chiefly to the south of the Miocenes described in the foregoing paper, and are very widely spread in the Southern States on the shores of the Atlantic. The mineral character of the beds in the north, is so like that of the cretaceous series, that were it not for the fossils they might readily be misstaken; but towards the south a new mineral type is put on, and the rocks consist of highly calcareous white marl and white limestone. In point of fact, there seems to be as great a chasm between the cretaceous rocks and the testiaries in America as in Europe.—A second part of Mr. Lyell's paper gave an account of a series of rocks, called in America the Burr-stone, a silicious reek, containing fossil sponges, and belonging, it would seem, to the upper division of the Ecoene period.

containing fossil sponges, and belonging, it would seem, to the upper division of the Eccene period.

INSTITUTION OF CIVIL ENGINEERS.

Frs. 28.—The Presence (Sir John Rexen) in the chair.

The paper, by Mr. P. W. Barlow on the comparative advantages of the atmospheric system of propulsion on railways, was the result of an examination of the system, with a view to determining as to the propriety of adopting it on the Tumbridge Wells Branch of the South Eastern Railway. The author first examined the comparative advantages of the atmospheric system over that of traction by a rope; and then he stated the reasons for supposing it to be individual to the theorem of the committee of the strength of t

tical difficulties he had advanced, had been overcome by the mechanical arrangements, now in progress of execution, on the more extensive lines, which were destined to be worked on the atmospheric system. That both sidings and it level crossings were practicable; by a very simple contrivance, a self acting platform could be so arranged, as not only to guarantee the pipe from any injury by the traversing of a cart across the line, but, that by the action of the vacuum in the main, a barrier could be raised on the passing of a train, which would effectually prevent the traversing of any vehicle, and thus avoid the piston, greater security was attained; and that, on one occasion, the leading carriage on the Dalkey line had started before its time, and had actually traversed the distance at a speed of nearly seventy miles per hour, going round to curves 130 to 180 yards radius. That the power stated to have been expended in the conveyance of a given gross load, was assumed at too high a ratio, and the fuel also; and that, as to the question of cost by haulage, by the adoption of small steam power, worked only for pumping water, to be used only at the time of forming the vacuum, for unfrequent, or for light trains, a system of propulsion might be established, which would be more economical than that by locomotives, under the best management. These counter-statements, in direct opposition to the arguments of the paper, were ably supported by the various

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Mr. 7 resolution the following Mr. S employe perfectly about to V. Davida A constant mr.

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gth which the limits of the report will not permit our givin as adjourned until the next meeting of the institution, of , when the mouthly ballot for snembers will take place, aper was announced to be read:—No. 710, "Description steam-ship, with an account of the trial veyages," by J. Inst. C. E.

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TIN MINES OF CORNWALL.

TIN MINES OF CORNWALL.

EMPORTAGE PARTIES OF THE LORDS, ADVESTIGATION OF THE REPORT OF THE LORDS, ADVESTIGATION OF THE LORDS, ADVESTIGATION OF THE LORDS, ADVESTIGATION OF THE STREET OF THE LORDS OF THE STREET OF THE LORDS OF THE STREET OF T

fore, in simply seconding the motion, which was put in the usual way and carried unanimously. (The whole of the resolutions will be found in our advertising columns).

Mr. Batten rose for the purpose of proposing the second resolution. They were no longer in a position to draw favourable pictures of the tin mining interest—capital would now be kept back which would otherwise be laid out in explorations. Just as the brighter day was beginning to dawn, the cup had been dashed from their lips, and they were no longer to receive the reward of their industry.—Mr. S. Davey seconded the resolution, which was, with those subsequently proposed, carried unanimously. The next resolution was proposed by Mr. Alfred Fox, who deemed it unnecessary to enlarge on the contents. He would, however, read to the meeting an extract or two from letters he had received from the East Indies, which might throw some light on the tin trade in that part of the world. These extracts went to show that the tin raised in that country contained from 97 to 98 per cent, of pure tin—that tin ore contained 68 per sent, of metallic tin—and that a short time since 700 tons of tin were exported into France from Penang, raised from adjoining native states.—The resolution was seconded by Mr. J. N. R. Malaert.

Mr. T. S. Bolttho here made some observations on the effect the proposed alteration would have on our tin mines, in the course of which he remarked, that it behoved the Government to grant to Comwall, even a greater protection than if tim were imported from all parts of the world, instead of from Banca alone—for if the produce of the Cornish tin mines failed, at no distant day our manufacturers would be dependent for their home consumption. In 1842, Sir R. Peel had stated to the deputation that he would make no alteration that should injure the mines of Cornwall, and he thought that if they showed Sir Robert that their produce had decreased 20 per cent, it would be a strong argument against his proposition.—Mr. Rumann Perance begged leave to move t

ar.

resolution.—Mr. R. R. MICHELL moved, and Mr. Shavester section.
Mr. S. Borlass rose, and observed that he wished the labourers to be employed, and thought it was their duty to protect them; he, therefore, perfectly, concurred in the preceding resolutions, as well as in that he was about to propose, which did not require a speech from him.—Mr. Richard N. Davy; seconded the resolution.
A conversation here took place, relative to the number of persons that are employed in tin mines and copper mines respectively—in which Mr. Pearce, Mr. T. S. Bolitho, Mr. Treffry, Mr. Roscorle, Mr. M. Williams, and Mr. A. Fox, took part. It appeared that there are about 2000 employed in the mines, and 22,000 in copper mines

Another short conversation then took place, in which Mr. A. Pex. Mr. T. S. Bolitho, Mr. M. Williams, and Mr. R. Taylor, joined, relative to Sir R. Peel's interference, in 1842, with the stream-houses, and the great falling-off in the number of streams in concequence.

Mr. T. S. Bourraso entered into a statement, showing the fluctuations of prices in foreign in, owing to the irregularity of its importation into this country. In 1842, Banca tin was in London. 55l. per ton; in 1835, 58l.; in 1836, 123l.; and in 1837, the price receded to 59l. With such fluctuations, no Cornish tin mines could live. The price of Cornish tin in 1835, was 58l. per ton—the highest 70l.—the average 64l.

Mr. R. Taylor, in complimentary terms, spoke of the seal and ability on all occasions manifested by Mr. T. S. Bolisho, in reference to his exertions in promoting the mining interests of the country, and proposed that that gentleman should form one of the deputation to London. They ought in no case to go without Mr. Bolitho, Mr. M. Williams, and Mr. Carne, and he proposed that these gentlemen he requested to form the deputation—Mr. M. Williams would second the motion with much pleasure, being allowed to withdraw his own name. He could bear testimony to the ability and efficiency of Mr. Bolitho and of Mr. Carne in bygone occasions. He considered a deputation necessary—for who was three to mind their interests, if they did not look after themselves—in order to assist the county, by rendering the Cornish members such local information as was necessary, in inducing Sir R. Peel to relinquish his object.

Mr. A. Fox would second the original motion. Of the two gentlemen named, who were present, he could speak strongly in reference to their ability and zeal, had they been absout.—The Chairman expressed the pleasure he felt in putting the resolution to the meeting, which was carried by acclamation.—Mr. R. Prance then moved that 4d. In the 1l-be raised on all tin ores delivered at the smelting-houses during the next three months, sto defray the

MINING OPERATIONS IN SOUTH AUSTRALIA.

We noticed some time ago the discovery of some valuable lead and copper mines in that interesting colony. By the barque Augustus, lately arrived in the London Docks, direct from Port Adelaide, from thirty to forty tons of copper ore have been received, which, we understand, has been found to contain upwards of 00 par cent. of metal. A small quantity formedly received from the same mine, "the Montacure," was cold hove at 24l. Is, per ton. The master of the Augustus, Captain John Hart, is a part owner of the Montacute Mine, and from him we learn, that the ore is procured at almost no expense, being so, near the surface; he has on board one block weighing about 7 cwt. There is a great probability of a company being formed in London, for the purpose of purchasing lands in South Australia known to contain minerals, and working the mines on a large scale. A gentleman in Cornwall has received a letter from a friend, who went to South Australia some time ago, advising him to sell his shares in some mining companies in Cornwall, as their value will be greatly reduced by the large supplies of ore which will be received from the South Australian mines. Such are the sanguine anticipations of that gentleman; but, while our friends in Cornwall need not be under any very serious apprehensions from that quarter, we are persuaded, that the exports of the colony will be greatly increased, in consequence of the mineral riches with which it abounds. Not only have lead and copper, but quicksilver has been discovered, some of which Capt. Hart saw before sailing. We have it in our power to annex an extract from a highly respectable gentleman, who emigrated to Australia from the continent of Europe some time ago. Translation of an extract from a letter veritten by Mr. Woltenius, formerly of Research and of the senior of the company of the senior of the compa rived in the London Docks, direct from Port Adelaide, from thirty to forty Translation of an extract from a letter written by Mr. Woltenius, formerly of Bremen, and addressed to his cousin in that city, the son of the senior burgomaster, dated Adelaide, Sept. 10, 1844.

ter, dated Adelaide, Sept. 10, 1844.

"This place pleases me very much, I may say better every day that I remain here; I do not at all regret having emigrated hither. The mines are now in full work, and appear to be very rich; there are at present 600 tons of ore lying here, and before the end of the year the quantity is expected to reach 3000 tons. Two ships have just left us with full cargoes, and a third is laid on for London, which is loading copper ore, bark, gum, oil, whalebone, and wool. We shall then be ill off with our accumulation of produce, unless we have a further arrival of vessels. The land here is admirably adapted for agricultural purposes, and whoever has a desire to work is sure to get on; but he must work, and must not be over-nice in respect to privations. I may just add here, that quicksilver is said to have been found in some places."

MINERALS IN New Zealand.—Mr. Alexander Majoribanks, in his Travels in New Zealand, says that extensive coal-fields have been found in different parts of New Zealand, particularly on the north of Middle Island, where there is sufficient to supply the settlers for many years to come, and that without the trouble of mining. Mr. M.-further observes, that within the last two or three years extensive copper mines have been discovered; the ore is of very superior quality, containing upwards of 40 per cent. of pure metal.

years extensive copper mimes have been discovered; the ore is of very superior quality, containing upwards of 40 per cent. of pure metal.

**X HAYLE FOUNDRY, CORNWALL.—Messrs. Harvey and Co. are now making large additions to their already extensive foundry. The fitting and boring department, when completed, will be equal to, if they will not exceed, any in England. The additions to the hammer-mill are already completed, one of Nasmyth's Cyclopean forge hammers having recently been erected. Its weight is 25 cwt. and the frame, which is cast-iron, weighs five tons; the anvil and block weigh nearly fifteen tons; it rises and falls perpendicularly, giving a 33-feet stroke. It is worked by a 14-inch cylinder, and is under such command that the superintendent can throw the whole of its ponderous weight on the heat, or reduce the blow-to the weight of a common sledge hammer. It is a curious and well constructed piece of mechanism, and far exceeds anything of the kind in Cornwall. The first piece of work performed by it was the forging of a gudgeon 8 feet long and 17 inches in diameter, which was perfected without the least difficulty in less than two days. There are upwards of 400 men employed in the various departments of the foundry.

*New Inon-Work near Cwainane.—On the western bank of the Pontypool line of the Monmouthshire Canal, within six miles of the town of Newport, a new iron-work has sprung-up, as if by roagic, and is just commencing active operations. It consists of one blast-furnace, with all requisite conveniences, and the proprietors have the credit of being the first to introduce into this part of the country a new apparatus for lifting the materials to the top of the furnace, as simple and effective as it is ingenious. A passenger, standing on the opposite bank of the canal, in front of the furnace, will observe immediately adjoining thereto, and connected with it, a high stage of woodwork; from the bottom of this three will suddenly emerge, and ascend slowly and steadily to the height of the furnace,

in seriatim; but if they were called upon to speculate in forty or fifty mines at once, very few would possess courage enough to do so.—Mr. C. K. Vious seconded the resolution.

Mr. M. WILLIAMS proposed, and Captain Francis seconded, the meximal proposed, and comparing the following resolution.

Mr. R. R. Michigan proposed, and Captain Francis seconded, the meximal proposed, and the distance of the collection of biast into the carth, and the platform descends with it. The operation above the collection of biast into the carth, and the platform descends with it. The operation above the captain for the collective of the introduction of biast into the carth, and the platform descends with it. The operation above the mass of this contrivance, the large outled uses place without any noise, or apparent working of machinery described takes place without any noise, or apparent working of machinery the second takes place without any noise, or apparent working of machinery the second takes place without any noise, or apparent working of machinery the second takes place without any noise, or apparent working of machinery the second takes place without any noise, or apparent working of machinery the second takes place without any noise, or apparent working of machinery the second takes place without any noise, or apparent working of machinery the second takes place without any noise, or apparent working of the collection of black the second and the disconting the turner descends with it. The operation of the collection of the following real machinery and the descent by the opening of a valve, which discharges it again. By means of this contrivance, the large outland usually required for making back the tube, and the flat takes place without any noise, or apparent work

TINIVERSAL SALVAGE COMPANY.

MR. EDWARD AUSTIN'S PATENTED METHOD OF RAISING SUNKEN OR WRECKED VESSELS

BT THE APPLICATION OF IRRESISTIBLE BUOYANT POWER.

Capial £100,000, in 4000 shares, of £25 each.

Deposit £5 per share.

Auture call to exceed £1 10a. per share, of which three months' Rotice will be give Registered according to Act of Parliament, T and 8 Fictoria, cap. 110. onths' Notice will be given

Registered according to Act of Parliament, T. and 8 Victorio Deristorosa.

Captain SANGEL PRICE, R.N., Chestronia, Lieut.-Colonel Guy Carieton Coffin, R.A.
Captain Rimand Norcott, R.N.
Captain William Barshall, R.N.
Manager and Commercial R. M.
Manager and Commercial Register of the Captain Register of the Register of the Captain Register of the Register o

John Watson, Esq., jan. 40, Hanielte-acteet, Covent-garden.
Thomas Eyre Wyche, Esq., 13, George street, Mansion House.

Secarrax—Mr. Walter Raymond.

The history of the carculties of the Royal and Commercial Naries of this great maritime country affords meisanchely proof of the immense losses annually sustained by allowers, indeed, as great is the amount of treasure and saluable property secfriced to the sea, that the wrecks which lie submerged in the neas of Europe, within the inlindes of 35 and 36 degrees north, and in known localities, are calculated to contain property to a greater amount than could be found in a tangible shape upon the surface of the two kingdoms of Spain and Portugal. This immense treasure receives constant augmentation from weeks occarring upon the different coats. of Europe to the estimated amount of about four millions annually; and these wrecks, in many instances, occasion other wrecks from the obstructions, and especially the foul anchorage, caused by them, when ships are suits, on archorage ground. In the years 1830-6, this interesting and importance were also as the surface of Commons, who, in making their inquiries, selected two periods of three years 1830-6, this interesting and importance of the continuous properties of the last century 100 ressels were lost in a single gale of wind at the port of Cadis.

These facts sufficiently demonstrate the magnitude of the losses occurring from ressels wrecked at sea, and the importance of any stiempt to retrieve them. Such attempts have not been unfrequent; and the most usual bave been by means of the diving-bell. In the year 1683 (about a century after the first exhibition of the diving-bell. In the year 1684 (about a century after the first exhibition of the diving-bell in Europe before the Emperc Charles V, of Germany). William Phipps,

The apparatus of Mr. Austin may be applied to other purposes than those or savage, but, as no other purposes are contemplated in this prospectus, it is unaccessary to curmerate them.

In order to give practical effect to Mr. Austin's patented invention, it is proposed in the raise of the company is out by an issue of shares; and, to protect the shareholders from the remotest chance of liability beyond the amount of their respective subscriptions, a clause will be inserted in the deed of constitution of the company, restraining the directors from embarking in any one operation until a fair estimate of its probable cost shall have been made by some competent person, either in the employ of the company or otherwise, and the company shall be in actual possession of funds arising from the subscriptions of the shareholders, or from the proceeds of former operations, immediately available for the purpose, exceeding such estimated probable cost by as least one-third, after all the current liabilities of the company are discharged and paid.

It will be obvious, upon referring to the enterprise of Mr. Phipps, and its result, that a single salvage operation, if well-selected and well conducted, will replace the capital employed upon it many times over. Several offers of contracts for salvage have been made to this company at very high rates of per centage, and hereafter it is probable that the more eligible of them will be accepted.

It is intended to establish a steam-vessel, with all the late improvements, at the entrance of the fiver Thanese, having on board, in constant readiness, Austin's Patented Apparatus, life boats, rockets, and lines, with other necessary gear, to assist vessels on alone or otherwise. Experience has shown that such a vessel will be the means of saving many valuable lives and much property; also, that she will realise, by salvage alone, a large profit on the capital so employed.—Patents for other countries are also secured. Under existing circumstances, a further application to Parliament is not

enter easuing circumstances, a further application to Parliament is not decread necessary; but, if it should be deemed necessary hereafter, it will be made.

Prospectuses may be obtained at the offices of the company, 5, Barge-yard, Bucklersburg, Applications for shares may be addressed to the sceretary in the form annexed the same of the same being made out to me, to pay the sum of £5 deposit for each share, and thenceforth to hold the same upon the conditions endorsed on such shares, and for the purposes of the prospectus issued by the Universal Salvage Company, bearing date October, 1844; and I further agree to sign the deed of constitution or settlement of the company when required.

Universal Sairage Company, 5, Barpe-yard, Bucklersbury, London.

Deposits to be paid to Messrs. Jones, Loyd, and Co., bankers, London.

Note.—During the last year one of the Steam Tug Companies at Liv of the diving apparatus, recovered a vast amount of eargofrom wreeked placed in the hands of Lloyd's agent at the above port, upwards of £20,000 and the limits of £20,000 are the limits o AGENTS AT THE OUTPORTS.

Liverpool—Messrs. Chapman, Bowman, and Co., agents for Lloyd's.

Doser—Messrs. Litham and Co.,

Harvich—Messrs. Billingsley and Co.,

Semborough—Mr. Francis Jennings,

ditto.

ditto.

Mr. John Coutts,

Morth Shields—Mr. Robert Boart,

Suth Varmouth—Mr. Philis Bricht

ditto. onn Courts, who are the state of the state o

BY HER MAJESTY'S ROYAL LETTERS PATENT

MARTS ELLIPTICAL CONVEX METALLIC FLOATS

MART'S ELLIPTICAL CONVEX METALLIC FLOA
FOR STEAM-SHIPS, as applied to the Bristol and Dublin steamer SHAME
and to the SWIFT, between Newport and Bristol; and also to the GSPERY, ru
between Bristol and Waterford. The patentee has now the satisfaction to announce,
in addition to the ships already named, he has granted a LIGENSE to the Bristol GR
Steam Navigation Company to USE his PATENT FLOAT in all their steam-ships,
prising the Dublin, Cox, Waterford, and the various channel port steamers, vary
power from forly horses to two hundred each.

The numerous ADVANTAGES attending this valuable invention may be seen be
1. The appearance of these floats is light and elegant.
2. Their durability and stability are indisputable, as may be instanced by the Shan
steamer, which has been fitted with them for nearly twelve-months, such has shown to
correlate the husuard mide. The floats are now as firm and good as they were the flux
3. Vibration is reduced so as to be scarcely perceptible; thus, the enginess are and both they and the ship suffer less wear and tear; and, from their speculiant forms
are strikingly advantageous in cases of strong head wind and heavy swa. Backwiste
undulation is also reduced to its smallest quantum, and thereby lessoning the class
accident to small boats, barges, &c., which has hitherto been consequent on the open
of the common paddle-float, particulatly in crowded rivers.

accurate to small onts, ourges, see, which has interior beer consequent on the operation of the common paddle-fload, particularly in crowded rivers.

4. They more readily arrest the progress of a ship in chances of a collision, the conservation date of the conservation of the conservat

ONE KNOT PER HOUR.

For license to use them (for which the charge is 10s, per horse-power), apply to the patentee, in. ROBERT SMART, 5, formwile-place, Hotwells, Bristol, who will pursually attend the fitting, if required, his travelling expenses being paid.

Messrs. George Lunell and Co., engineers and shipbuilders, Bristol.

W. J. Le Feuvre, Esq., Swanses.
Theomas Movatt, Esq., engineer, Leith, near Edibburgh.

Scott, Sinclair, and Co., Greeneck.
W. H. Hutchinson, Esq., Hull.
J. R. Pim, Esq., Dublin and Liverpool.

Jukes, Coalson, and Co., 12, Chement's-lane, London.

** Testimonials of the highest order, on application to the patentee or his agents.]

Bristol, December, 1844

(Limited by Act of Parliame restre, M.P. ingham, Esq. S. S. san, Esq.

Richard Norman, Esq.

Richard Norman, Esq.

AUDITORS.

Gurney Barclay, Esq.

AUDITORS.

John Cuninghame, Esq.

BANKERS—Mesers. Prescott, Grote, and Co.

STANDING COUNSEX.—G. A. Young, Esq.

BOLICITORS—Mesers. Amory, Sewell, and Moores.

SECRITARY—Charles F. Ellerman, Esq.

By the Acts of Incorporation the responsibility of shareholders is limited to the amount capital represented by the number of slares standing in their respective names.

The company has been formed for the purpose of carrying out the following objects:—

1. The Fisheries in the Gulf and River St. Lawrence.

2. The Sade of Tender on the Estates belonging to the Corporation.

3. The Sade of Coal.

4. The Sade of Land in Blocks or Small Allotments.

5. The Formation of Agricultural Settlements on the several properties of Bonconture, Pabos, and Port Daniel, all situate in the district of Gaspe, in Canada East, or Lower Canada. BONAVENTURE.

The first of the three properties here mentioned consists of about 66,242 acres, and is tusted in the township of Cox and Hamilton, on the Great Bonaventure fiver and its traticis, which discharge themselves into the Bay of Chaleurs. It constitutes one of the sest tracts of land in the district, perhaps in the province, producing on the one hand oldec descriptions of timber, and combining with this the advantage of a failery, which e carried to any extent.

PABOS.

This estate is situate near the entrance to the Bay of Chalcurs, and is estimated to conduct 53,000 acres, more or less; and as in Bonaventure, so in Pabos, the timber is abundat and of excellent quality, while its peculiar capabilities as a fishing station are, as will creafter be more fully explained, quite unrivalled.

PORT DANIEL COAL-FIELD.

This property is situate in the immediate vicinity of the Harbour of Port Daniel, twentyeven miles east of Bonaventure, and fifteen miles west of Pabos, and comprises about
our acres of land. The sections have been so selected as to secure to the company the
colusive possession of the entire coal-field.
These estates are purged from all seignorial rights, and are held in free and common

Recage.

For the purpose of showing the advantages which may be expected to accrue from the purchase of and working these properties with an adequate capital, it will be necessary to somewhat into-detail. The directors will here, however, confine themselves as strictly as it is possible to the limits usually allowed to a prospectus, referring rather to the accompanying appendix for further information as regards the data whereon their estimates of profit are founded.

The objects which the directors have in view have been already stated, and to these they will briefly refer seriatin; and first—

The objects which the directors have in view have been already stated, and to these they will briefly refer seriatin; and first—

The flaheries in the Bay of Chaleurs are well known to be the most valuable of any along the coast of the British Provinces in America, not more by reason of the abundance, auperior quality, and variety of the fish caught there, than for the great facilities afforded for curing them. Neither on the bay shore, nor indeed along the whole line of American coast, is there a spot at all comparable to Fabos for the establishment of an extensive fishery, for it has within itself or or all or an order to coast, is there a spot at all comparable to Fabos for the establishment of an extensive fishery, for it has within itself or so the most economical scale. Apart from other recommendations, to be hereafter more particularly adverted to, it may be mentioned fished it has three harbours admirably adapted for small craft, especially that of Grand Pabos. These harbours offer accure refuge in all weathers and seasons for boats and small vessels, and in these the character more refuge in all weathers and seasons for boats and small vessels, and in these the character more refuge in all weathers and seasons for boats and small vessels, and in these the character more are at all times able to land at night the fish ready, whatever may be the quantity, for sating before the morning. Fish thus prepared are greatly superior in quality to train the common of the vessels—a proceeding what have been supported to a six universal with the on board the vessels—a proceeding what have selected to be a supported to the sating remains a superior of the sating ground; and hence, while she putce which the former common and in the home and storage weathers is always higher, the cost of production is comparative to the sating which are superior to the sating when the sating and the sa

above 100 miles to procure it. The mere cost of taking the basit is trifling; but the waste of time must be great, and proportionately great must be the cost of production of the fish to the fishement of Pabos, who find it on the spot.

LUMBER TRADE.

Bonaventure, exclusive of its capabilities for carrying on the lumber trade on a large beale, commands an extent of coast which will greatly facilities the fisheries, directly as well as indirectly. To prosecute the fisheries on the most profitable footing wood is indispensible. It is required for building boats, barges, making casks, tubs, &c., and also for exportation to those countries where fish is consumed—as the Mediterranean, the Brazils, the West India Islands, &c. The establishments which have for a long series of year exercised a monopoly over the fish trade possess no mills; and herein, again, a company even preparing their staves only by machinery would have a decided advantage over those who, pay the manufacturers' profit, which they must do if made by hand—a difference which may be safely estimated at 30 per cent. on the prime cost of the casks, tubs, &c.—

i large item of profit, considering the many thousands annually used.

It has been ascertained, from accurate inspection and survey, that the quantity of timber on the Pabos and Bonaventure properties is immense, while in quality it is scarcely surpassed in Canada. The quantity consumed in the trade and works of the company will be large, and what is not required for these purposes can be readily disposed of. The calculations contained in the appendix will show that from this source considerable profits may be safely relied on, taken even, as the directors have done, the costs of production at the maximum, and the proceeds at the minimum, of probability.

Both at Pabos and Bonaventure are excellent sites for saw mills, with a water power far greater than ever can be required by the corporation.

PORT DANIEL AND ITS COAL-FIELD.

The harbour at Port Daniel is the best within the Bay of Chaleurs, and

From other branches of trade nothing, for reasons stated in the appearance.

Vide Colonial Magazine, No. 8, for August, 1844, p. 436.
 † Including 5 per cent. interest on the capital.

ONDON AND WESTMINSTER BANK.-Notice is hereby given, that the ANNUAL GENERAL MEETING of the proprietors of this commy will be HELD at the bank, in Lothbury, on Wednesday, the 5th day of March next of the commy receiver, to declare a dividend, and for other purposes.—At this meeting receiver, to declare a dividend, and for other purposes.—At this meeting receivers retire by rotation, but, being eligible for re-election, offer themselves as relingly.

By order of the board,
Lothbury, Jan. 21, 1845.

JAMES WM GILBART, General Managor
The Transfer Books will be closed, to prepare for the dividend, from the 17th February the 16th of March.

PATENT IMPROVEMENTS IN CHRONOMETERS.

WATCHES, AND CLOCKS.—E. J. DENT, 82, Strand, and 33, Cockspar-street, watch and clock maker, BY APPOINTMENT, to the Queen and his Royal Highness watches, and clocks, is secured by three separate patents, respectively granted in 1836, 1840, 1842. Silver lever watches, jewelled in four holes, 6 gs. each; in gold cases, from 28 to £10 extra. Gold horizontal watches, with gold dials, from 8 gs. to 12 gs. each.

DENT'S PATENT DIPLIEDOSCOPE, or merdian instrument, is now ready for delivery. Pamphlets containing a description and directions for its use 1s. each, but to customers gratis.

OFFICES OF THE COMPANY, 63, MOORGATE-STREET, LONDON.

REAT MUNSTER RAILWAY OF IRELAND.

PROM TRALEE AND TARBERT, THROUGH LIMERICK DIRECT TO DUBLIN,

TO JOHN THE

FROM TRALEE AND TARBERT, THROUGH LIMERICK DIRECT TO DUBLIN, TO JOIN THE DUBLIN AND CASHEL RAILWAY,

NEAR THE TOWN OF MOUNTRAIR, IN THE QUERN'S COUNTY.

Accommodating in the county of Kerry, the towns of Tralee, Ardiert, Listowell, Ballylongfort, Tarbert, Castle Island, and Killarney.

In the county of Limerick, the towns of Giln Shanagolden, Askeaton, Adair, Pallas tenry, Abbeyfasyle, New Castle, Rathkeale, the city of Limerick, and Castle Connel. In the county of Tipperary, the towns of Nenagh, Cloughjordan, and Roscrea. In the Queen's County, the towns of Borris in Ossory.

Length of lies 120 miles.

Capital £1,300,000, in shares of £50 each.—Deposit £2 10s. per share,

No shareholder to be liable beyond the amount of his subscription.

PROVISIONAL COMMITTER.

No shareholder to be liable beyond the amount of his subscription.

The Right Hon. Lord Dunalley
The Honourable Francis Aldborough Prittie
John Bayly, Esq., High Sheriff, county Tipperary
Christopher Gallway, Esq., High Sheriff, county Kerry
Henry Watson, Esq., High Sheriff, county Kerry
Henry Watson, Esq., High Sheriff, city Limerick
Richard Unlacke Bayly, Esq., J.P. and D.L., Ballynaclough
Edward Turst Carver, Esq., MarDorough-house, London
Daniel Cronin, Esq., J.P., the Park, Killarney
Michael Furnell, Esq., J.P. and D.L., Limerick
Joseph Griffith, Esq., Roscrea
Kean Mahoney, Esq., Killarney
John O'Connell, Esq., J.P., Grena, Killarney
John O'Connell, Esq., J.P., Romann, London
Adam Walker, Esq., J.P., Romann, London
Adam Walker, Esq., J.P., Romann, London
Captain Hamilton, Charles-street, St. James's-square
John Coltsmann, Esq., Flesk Castle
Charles Goo. Fairfield, Esq., J.P. and D.L., Ardfert Abbey, Tralee
Wm. Talbot Crobie, Esq., J.P., and D.L., Ardfert Abbey, Tralee
Denis O'Prien, Esq., Limerick
Alderman Saunders, Cork
Captain Meredith, J. P.

(With power to add to the constant of the constant

Alderman Saunders, Cork
Captain Saunders, Cork
Captain Saunders.

(With power to add to their number.)
ENGISEES—Messrs. Leahy, M.I.C.E.L. and D.
SOLICITORS.
Messrs. Johnston, Farquhar, and Leech, London.
P. Ryan, Esq., 23, William-street, Dublin.
SECRETARY AND LONDON AGENT—Edward Billing, Esq.
White Mankers.
Union Bank of London, 8, Moorgate-street, Lothbury; Messrs. Moss and Co., Liverpool.
Bank of Ireland; Provincial Bank of Ireland; National Bank of Ireland; Tipperary Jointstock Bank—and the branches of those banks.
The following are the brokers and agents of the

SIGNE BAIR—and the branches of those banks.

The following are the brokers and agents of the company, to whom applications fe shares may be made, and from whom prospectuses may be had:—Mr. Edward Billim Secretary in London, 63, Moorgate-street, and Albion Chambers, Adam-street, Adelphi Mr. John Wills, stock and sharebroker, Royal Bank-buildings, Liverpool; Messrs, Ge Edwards and Son, sharebrokers, Bristol; Messrs, Fotter and Co. stock and sharebroker Leeds; Messrs. Collisson and Flint, stock and sharebroker, fittil; Messrs, Cardwell an Sons, Man-sharebro, Mr. Thomas Miller, stock and sharebroker, Edinburgh; and Mr. J. C. Foulds, sharebroker, Giasgow.

OFFICES OF THE COMPANY, 63, MOORGATE-STREET, LONDON

OFFICES OF THE COMPANY, 63, MOORGATE-STREET, LONDON.

ORK, YOUGHAL, AND FERMOY RAILWAY.

CITY OF CORK, THE TOWNS OF MIDDLETON, FERMOY, RATHCORMACK, COVE CLOYNE, CASTLEMARTYR, KILLEAGH, AND YOUGHAL.

PROVISIONAL COMMITTER

James Carnegie, Esq., North Esk, Cork

J. Carmichael, Esq., Cork

Alderman Alfred Greer, Cork

J. F. Morice, Esq., Tulse-bill, Brixton

Henry Penny, Esq., 131, Piccadilly, London

J. G. B. Hudson, Esq., Essex-court, Temple

Alexander Ross, Esq., 5t Mary Axe, London

Thomas R. Sardeld, Esq., J. F., Ducloyne, Cork

L. H. Thompson, Esq., Setoph-lane, London

(With power to add to their number).

ENGINERS—Messrs, Leshy, M.I.C.E.L. and D.

SOLICIONS.

Messrs, Johnston, Farquhar, and Leech, London,
Julius Cresar Besnard, 59, South Mall, Cork.

SCRETTARY AND LONDON AGENT—Edward Billing, Esq.

BANKERS—

RANKERS—Messrs, Moss and Co., Liverpool.

of the company, to whom applications for the company, to whom applications for shares may be made, and from whom prespectuses may be had in a few days:—Mr. Edward Billing, Secretary in London, 63, Moorgate-street, and Albion Chambers, Adamstreet, Adelphi; Mr. John Wills, stock and sharebroker, Royal Bank-buildings, Eiverpool; Messrs. George Edwards and Son, sharebrokers, Bristol; Messrs. Potter and Co., stock and sharebrokers, Enistol; Messrs. Potter and Co., stock and sharebrokers, Leeds; Messrs. Collinson and Flint, stock and sharebrokers, Hull, Messrs. Cardwell and Sons, Manchester; Mr. Thos. Miller, stock and sharebroker, Edinburgh; Mr. J. C. Foulds, sharebroker, Glasgow; and Mr. J. M'Donnell, Post-office, Cork.

*CORK AND KILLARNEY RAILWAY, with a FUTURE EXTENSION TO VALENTIA (Provisionally Registered), FROM CORK TO MACROOM, AND MILLSTREET TO KILLARNEY, WITH A BRANCH THROUGH KANTURK TO MALLOW.

Length of line 72 miles, including the Branch to Malle Capital £650,000, in 13,000 shares, of £50 each.—Deposit £2 10s. per share

No shareholder to be liable beyond the amount of his subscription. OFFICES OF THE COMPANY, 63, MOORGATE-STREET, LONDON.

IGES OF THE COMPANY, 63, MOORGATE-STREET, LONDON PROVISIONAL COMMITTIE.
Christopher Gallway, Esq., High Sheriff of the county of Kerry Daniel Cronin, Esq., of the Park, Killarney, J.P.
Kean Mahony, Esq., Killarney, J.P.
Lewis Cromble, Esq., Forna, J.P.
Lewis Cromble, Esq., Holles-street, Cavendish-square, London Alexander Ross, Esq., St. Mary Axe, London
L. H. Thompson, Esq., Fennington, London
Thos. Parsons Boland, Esq., J.P., Pembroke House, Passage West
James Splaine, Esq., J.P., Gurrane House, Bandon
William B. Hoare, Esq., J.P., Cork
John Sauders, Esq., J.P. Cork
John Schieners, Esq., J.P., Cost
John Coltsman, Esq., Flesk Castle Lough
John Coltsmann, Esq., Flesk Castle, Tralee
Alderman Saunders, Cork
Captain Meredith, J.P. Jonn Coitsmann, Esq., Flesk Castle, Tralee
Alderman Saunders, Cork
Captain Meredith, J.P.
Captain Meredith, J.P.
Thomas R. Sarsfield, Esq., J.P., Ducloyne, Cork
James Carnegie, Esq., North Esk, Cork
Alderman Alfred Greer, Cork.
J. Carmichael, Esq., Cork
W. G. Brown, Esq., J.P., Coolcower House, Macroom
Robert Nettles, Esq., J.P., Nettleville, Macroom
Rev. Somers Payne, Upton, Bandon
Robert Foster, Esq., R.N., Rock Castle, Bandon
(With power to add to their number.)
ENGINERAS—Messrs. Lealny, M.I.C.E.L. and D.
SOLICITONS.
Messrs. Johnston, Farquhar, and Leech, London.
Julius Caesar Besnard, Esq., 39. South-Mail, Cork.
P. Ryan, Esq., 23, William-street, Dublin.
SECRETARY AND LONDON AGENT—Edward Billing, Esq.

Union Bank of London, 8, Moorgate-street, Lothbury; Messrs. Moss and Co., Liverpool;
Bank of Ireland; Provincial Bank of Ireland; National Bank of Ireland—and the branches of those banks.
The following are the stockbrokers and agents of the commany, to whem applications.

branches of those banks.

The following are the stockbrokers and agents of the company, to whom applications for shares may be made, and of whom prospectuses may be had:—Mr. Edward Billing, secretary in London, 63, Moorgate-street, and Albion-chambers, Adam-street, Adelphi; and at the offices of the soliciters in London, Dublin, and Cork; Mr. John Wills, stock and sharebroker, Royal-buildings, Liverpool; Messrs George Edwards and Son, sharebrokers, Bristol; Messrs, Potter and Co., stock and sharebrokers, Leeds; Messrs. Collins on and Flint, stock and sharebrokers, Hull; Messrs. Cardwell and Sons, Manchester; Mr. Thomas Millar, stock and sharebroker, Edinburgh; Mr. John M'Donnell, post-office, Cork; Mr. J. S, Foulds, sharebroker, Glasgow; and Mr. Edward Ashe, Macroom, Ireland

FORM OF APPLICATION FOR SHARES.

To the Provisional Committee of the Cork and Killarney Railway.

GENTLEMEN,—I hereby request you will apportion me shares in the above proposed railway; and I agree to pay the deposit of £2 10s. per share upon such allotment as you may be piessed to make, and to sign the subscription contract required by Parliament, and also the subscribers' agreement.

make, and to sign the subscient servant,
I am, Geutlemen, your obedient servant,
Name
Profession, trade, or calling
Residence
Date of application

BRISTOL AND EXETER RAILWAY COMPANY.—At the Half-Yearly General Meeting of this company, held at the White Lion Hotel, in the city of Physics, or Thursdesiting of this company, the Half-Yearly General Mesting of this company, held at the White Lion Hotel, a the city of Bristol, on Thursday, the 27th of February, 1845,

It was unanimously_readved,—
That the corporate seal of this company be affixed to the register of proprietors now readings.

1. That the corporate seal of this company be affixed to the register of proprietors now produced.

2. That the report of the directors, now read, be received and adopted, and that they be requested to send a copy thereof to every proprietor,

3. That a dividend of £1 &s. per share, for the half-year ending on the 6th day of April next, be declared payable after the 30th of the same month, free of income tax.

4. That Edward Divert, Esq. M.P., M. Samuel Lucas, Dr. Miller, and Mr. Charles B. Fripp, be re-elected directors of this company.

5. That the best thanks of the proprietors be given to the directors, for their able and realous management of the affairs of this company.

6. That the best thanks of the proprietors be given to the secretary, for the zeal, attention, and talent with which he has promoted the interests of the company.

The chairman having quitted the chair,

It was also resolved by acclamation,—

7. That the best thanks of this meeting be given to Frederick Ricketts, Esq., for his able and Judicious conduct in the chair.

CHESTER AND HOLYHEAD RAILWAY COMPANY. Incorporated 4th July, 1844—7 and 8 Victoria, cap. 65. SECOND GENERAL MEETING.

SECOND GENERAL MEETING.

At the Half-yearly General Meeting of the Chester and Holyhead Railway Company, held at the offices of the company, 62, Moorgate-street, London, on Wednesday, the 26th February, 1845, W. R. COLLETT, Esq., M.P., in the chair. The seal of the company was affixed to the register of proprietors.

It was resolved,

1. That the report of the directors, now read, be received and adopted; and, together with the statement of accounts, be printed and circulated amongst the proprietors.

2. That, to provide means for the labourers, about to be brought on the line, attending Divine Worship on Sundays, a sum not exceeding 2500 for the current year, be placed at the disposal of the directors, provided that an equal amount be raised for the purpose from other sources. 30

ther sources.

3. That the thanks of the proprietors be given to the directors, for their zeal and ability a promoting the interests of the company.

4. That the thanks of the proprietors be given to the auditors for their services.

5. That John Lewis Prevost, Esq., and Win. Borradsile, Esq., be re-appointed auditors.

6. That the thanks of this meeting be given to the chairman, for his satisfactory explasions relating to the affairs of the company, and his able conduct in the chair.

PROVINCIAL AND FOREIGN WATER-WORKS
COMPANY.—(Registered Provisionally.)
Capital £500,000, in 10,000 shares, of £50 cach.—Deposit £1 per share.

RNGINEER.

Thomas Wicksteed, Ead, Engineer to the East London, the Grand Sunction, the Valuation and Kent Water-Works, in London, and the Hull Water-Works.

Mossrs, Marken, Thomas, and Hollams, Mincing-lane, London.

The recent Report of the Commissioners for Inquiry into the Health of Towns, having shown the expediency of an increased supply of water for country places and districts, and the want of similar supplies on the continent being well known, a company is in course of formation, the object of which is to raise a capital, to be employed in affording to provincial cities and towns on the continent, the means of an abundant and constant supply of water, similar to that which exists in the metropolis.—The calculations of profit show a return of at least 8 per cent, on the capital expended.—The names of the provisional committee will shortly be advertised. Applications for shares, in the following form, may be made to the solicitors, of whom detailed prospectuses may be obtained:—

GENTLEMEN,—I request you to allot me

Shares in the Provincial and Foreign Water-Works Company, and I hereby undertake to accept the same, or any less number that you may allot to me, and to pay the deposit of £1 per share thereon, and also to execute the Parliamentary contract and subscribers' agreement when so required.

Name.

Address.

VICTORIA PARK CEMETERY COMPANY.

Registered provisionally, pursuant to 7 and 8 Fig., c, 110.

Capital £20,000, in 2000 shares, of £10 cach.—Deposit 10a. per cent.

George Offor, Esq.

Joseph James Foot, Esq.

Joseph James Foot, Esq.

James Collier, Esq.

Charles Salisbury Butler, Esq.

Frederick James Catling, Esq.

Robert Beeton, Esq.

Robert Beeton, Esq.

This company is established to afford the means of sepulture to the population of the metropolis and in the eastern parts adjacent thereto, having for its object the securing an utilizate and protected resting-place for the dead, and a processive of the securing and the square of the leady of the leady

and registrar, 6, Spital-square.

REAT PARIS AND LYONS RAILWAY.

Capital 200,000,000 fr. (£8,000,000), in 500 fr. (£20) shares.

Deposit 50 fr. (£2) per share.

To be repaid in full, without interest, in case the company should not obtain the Leage.

PROVINIONAL COMMITTER.

M. le Counte de la Pinsonniere, Pair de France, Membre du Conseil General d'Indre et Loire

Le Lieut. Gen. Counte de Rumigny, Aide-de Camp du Roi, Administrateur du Chemin de Fer de Lyon & St. Etlenne

M. Gilbert Coulayon, de Lyon, Extrepreneur General des Transports du Gouvernement

M. F. Oudet, Administrateur des Messageries Laffitte, Caillard, et Cie.

M. Barbier Ste. Marie, Administrateur des Messageries Laffitte, Caillard, et Cie, W. T. Copeland, Eag., Alderman and M.P.

Sir Arthur de Capell Broke, Bart.

John Gillyatt Booth, Esq.

Hon. William Ashley

John Griffith Frith, Esq.

Henry Lewis Smale. Esq.

Andrew Spottiswoode, Esq.

John Rawson, Esq.

N. (With reases to add to their number)

Henry Lewis Smale.

Andrew Spottiswoode, Esq.
John Rawson, Esq.
Captain Chamier, R.N.—(With power to add to their number.)

BANKINS IN PARIS.

M. A. Gouin (Deputé) et Cle, laté Jacques Laffitie et Cle.
BANKES IN LONDON.

Messrs. Barnett, Hoares, and Co.; Union Bank of London; Messrs. Cocks, Biddulph, and Co.; the Commercial Bank of London.

Extract from the Projet de Loi, presented by M. S. DUNON, Minister of Public Works.

"The Railway from Paris to Lyons, is of all lines to establish one of those, to which the country attaches most importance—to unite the Ocean and the North Sea to the Mediterranean; Paris, the capital of the kingdom, with Lyons, which is its second town; and with Marseilles, the first of its sea-ports—in fine, to connect the North and South of Prance. Such are the principal results to be realised by the railway from Paris to Lyons. At the same time, by a branch from Dijon to Mulhouse, this railway will connect Marseilles with Strasbourg, the Mediterranean with the Rhine, and will thus secure to France the continuance of the commercial transit which Austria and Italy seek to take from her."

the continuance of the commercial transit which Austria and Italy seek to take from her."

Extract from the Report of the Commission charged with the examination of the "Project de Loi."

"The great railway going from Paris in opposite directions, joining the Ocean and the Mediterranean, Havre, Boulogne, Calais, Dunkirk, the frontier of the North and the great port of Marseilles, uniting Paris and Lyons, our two great centres of population and strength, of activity and industry, has always fixed the stention of the Government, the Legislature, and the country at large, and should command prompt execution. Already a line is established from the English Channel, by Havre and Rouen to Paris; and the Great Northern Line is being pursued with vigour. At the other extremity Avignon will soon be united to Marseilles, and it is high time that the central part of this great line through the heart of the kingdom, through the midst of its rich population and its principal towns, should be executed."

cipal towns, should be executed."

Applications for shares and prospectuses to be made to Messrs. Parkes, Smith, and Co, solictors, 12. Bedford-row: Messrs. Sutton, Gribble, and Co., brokers, 8, Cornhill; R. W. Carden, Eaq., sharebroker, 644, Threadusedle-street, or to the secretary, at the company's offices, 63, Moorgate-street, London.

The last day for applications for shares is the 15th March.

Feb. 28, 1646.

W. IRWIN, Secretary.

Capital 60,000,000 fr., or £2,400,000, in 120,000 shares, of 500 fr., or £30 each prospectuses will be duly issued; in the meantime applications for shares may be dressed to the provisional committee, at the office of their solicitor, George Ogle, Est. 4, Great Winchester-street, Broad-street, London.

OFFICE FOR PATENTS, 7, STAPLE INN, HOLBORN,

J. MURDOCH (successor and late assistant to Mr. Hebert) informs INVENTORS and PATENTEES, that at his OFFICE they can obtain.

(THE ONLY ONE REFERENCE TO A CLASSIFIED LIST OF PATENTS, CTHE ONLY ONE REXANT), which shows at one view all the Patents over granted for lay particular object, whereby they may save much trouble and expense, and procure is formation not otherwise obtainable. BRITISH and FOREIGN PATENTS OBTAINED, and USEFUL and ORNAMENTAL DESIGNS REGISTERED.

SPECIFICATIONS carefully prepared, and REPORTS of ENROLLED SPECIFICATIONS furnished on moderate terms.

FINISHED and WORKING DRAWINGS executed with accuracy and despatch.

COAL MINES.—Professor FARADAY'S IMPORTANT the CAUSES OF, and MEANS OF PHEVENTING, EXPLOSIONS IN COAL MINES, will be published in *The Repertory of Patent Inventions* on the 1st of March; the same Number will contain the conclusion of Lows s. PENS for the Scrow Propeller, and Tal Specifications of important Inventions, &c.

Published by Macintosh, 20, Great New-street, London; sold by Simpkin, Market, and Co., and all booksellers—price 3s.

A P P R E N T I C E—JOURNAL OF MECHANICS INSTITUTE AND GENERAL EDUCATION, with which the INSTITUTE and INCORPORATED, weekly price 14d.—The design of this work is to diffuse amony youths and persons of imperfect education the most useful and interesting information in the broad domain of science and literature; to give weekly, in the form of review, as essence of the best works is toly published, and to set before those starting on the highway of fife the precautions necessary to success, and, by the observance of which, the will be sure to rise in the world.—OFFICE, WELLINGTON-STREET MORTH.

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imposed removal ported; the reduce of the re

HEAL FRANCO MINE.—Notice is hereby given, that, at a General Meeting of the adventurers, held this day, a CALL of ONE POUND ahare was made, the same to be paid immediately. This call is rendered necessary, in the present want of means to drain the eastern part of the mine, thereby preventhe anticipated return of ore. Means are now being adopted which, will obviate the culty.—Plymouth, Feb. 18, 1845.

RMAGH, COLERAINE, AND PORTRUSH RAILWAY COMPANY.—The allotment of shares will take place to approximate the state of the st RMAGH, COLLEKAINE, AND JOSEPH COMPANY.—The allotment of shares will take place to-morrow, and the deposits be paid on or before Saturday, the 8th of March. The liabilities of the sharcholders mitted to 7. 6d. per share, in case the bill should be rejected by Parliament.

T. W. YOUKHUSBAND.

Secretary

WILLIAM GALT,

THE PATENT SAFETY FUSE.

FOR BLASTING ROCKS IN MINES, QUARRIES, AND FOR SUBMARINE OPERATIONS.—This article affords the SAFEST, CHEAPEST, and most EXPEDITIOUS MODE of effecting this very heart-ofus operation. From many testimonies to the nachuness with which the manufacturers have been favoured from every part of the kingdom, they select the following letter, recently received from John Taylor, Equ., F.R.S. e.;.—'I am very glad to hear that my recommendations have been of any service to you; they have been given from a thorough conviction of the great usefulness of the Safety Fuse; and I am quite willing that you should employ my name as evidence of this J. Manufactured and sold by the Patentees, BICKFORD, SMITH, and DAVEY and

OTICE TO INVENTORS.—OFFICE FOR PATENTS
OF INVENTIONS AND REGISTRATIONS OF DESIGNS, 14, LINCOLN'S
INN-FIELDS.—The printed INSTRUCTIONS gratis, and every information upon the
subject of PROTECTION for INVENTIONS, either by Letters Patent or the Designs Act
may be had by applying personally, or by letter, pre-paid, to Mr. Alexander Prince, the
office, 14, Lincoln's Inn-Fields.

Just published, part I.,

COMBUSTION of COAL, CHEMICALLY & PRACTICALLY

CONSUMPRED. With coloured of the CONSIDERED. With coloured plates.

By CHARLES WYE WILLIAMS, Bsq.

London: Simpkin, Marshall, & Co., and J. Weale—Birmingham: Wrightson & Wels

W. W. W. (Merthyr Tydvil), J. B. (Bridgend), and J. G. (Proaza, communications by post.

We have been favoured by our able correspondent, Dr. Murray, with a paper on the veral treatises, &c., recently published on the Explosion of Coal Mines, which will pear in next Journal.

year in least outside.

We are preparing a history of all the different methods of submerged propelling order to render the paper as perfect as possible, we should feel obliged by the nications of correspondents on the subject.

THE MINING JOURNAL Railway and Commercial Sagette.

LONDON, MARCH 1, 1845.

We are still without the data necessary to fully establish the po-sition of the "home" miner in a manner which we feel desirous of doing, so as to avoid any question likely to arise on the part of the doing, so as to avoid any question likely to arise on the part of the melter, the foreign mine owner, or adventurer—hence we must needs defer our remarks on the subject. We are daily acquiring information, which will doubtless be found useful by the committee appointed to watch and protect the mining interest, and gladly shall we place it at their disposal, for never did a government act so recklessly with regard to one of the staple branches of our national industry and sources of revenue, as that manifested by the attack made on the miner and mine-adventurer by our present Conservative frectrade legislators. There is already a hatred or detestation, on the part of Cornishmen, to the Poor Law Bastile, and thousands are there who we believe would rather die in penury and want than on the part of Cornishmen, to the Poor Law Bastile, and thousands are there who we believe would rather die in penury and want than he indebted to the Union which separates the husband and his wife, not only from each other, but from their offspring. Yet, if the free-traders, with Sir Robert Peel as a leader, carry out fully their objects, and this appears likely—if we are to judge by the rapid strides made of late, we apprehend that the Union Houses, however untenanted they may be at the present moment, will be found far too limited to afford space or accommodation for the many thousands thrown out of employ by the ministerial measure.

It is now some three years since an alteration was made in the tariff, and that copper ores were admitted at a duty to be smelted in this country, a reduction was then made in that imposed on tin, and a duty

country, a reduction was then made in that imposed on tin, and a duty of 20s. per ton fixed on tin ores; manganese and other metals were also to be admitted on modified terms. Against this measure, active also to be admitted on modified terms. Against this measure, active but fruitless efforts were made, the smelter and foreign miner, with the Liverpool interest, had too strong a hold on the minister, who in turn was weak enough to be led by their representations, and to sacrifice the national interest, and thus inflict an irreparable injury on the country of Compared.

the county of Cornwall.

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As an instance of the effect caused by the alteration in the law, As an instance of the effect caused by the alteration in the law, we may merely observe that in the mines of Fowey Consols and Par Consols, the difference arising from the depreciation in the standard in 1844, as compared with 1841, has amounted to no less a sum than 25,000*l*. on the ores raised in the past twelve months, and hence a reduction of profits, or an increase of loss attendant on the working of these two mines alone. We will not, however, attempt to argue or discouss the point without figures, which, in themselves must be held to be conclusive by all parties, however one selves, must be held to be conclusive by all parties, however op-posed our views, may be to those they themselves entertain; and, with a passing remark on the meeting held at Truro this week, as regards the remission of the import duty on tin and other ores, we shall allow the subject to remain over until our friends perform their promised aid, by contributing "facts and figures." We are fully sensible how much their time and attention must be employed, but sensible how much their time and attention must be employed, but when they consider the importance of the subject at issue, we feel assured, to use an Irishism, they will not be "backward in coming forward." The remission of the duties, as proposed by the Minister, is next to absolute free trade, as regards mineral products, for copper ore alone remains with a slight duty imposed on its import, and this, we may well imagine, nay, feel assured of, will be permitted to be brought into this country, free of all duty, ere another session expires.

expires.

We admit that, for the present, we are secure; yet the smelter, the foreign miner, the ship owner, and others whose interests are concerned—but who concern not themselves for those of others, are not satisfied to wait awhile. No; they must memorialize the Government: and never was so shameful a document composed, so full of misrepresentations, and so devoid of truth, without the slightest grounds on which to support their prayer—for claim they had none. This precious document, engrossed, we understand, on asses' skin, was In sprecious accument, engrossed, we understand, on assess skin, was given in our journal of the 15th ult., reserving, as we did, our comments until we shall be in a position to grapple with the subject, and at once to destroy that of the memorialists, and like the "Baseless fabric of a vision,

Leaves not a wreck behind."

We, therefore, pass on to a brief notice of the meeting held the 25th

ult., at Truro, on which occasion, that true and hearty friend of the working miner, Mr. J. T. Treffry, presided.—The resolutions will be found in another column, and it is alone sufficient to direct attention to one for the suite and the following the sufficient to direct attention to one for the suite and the following the sufficient to direct attention to one for the suite and the following the sufficient to direct attention to one for the suite and the sufficient to direct attention to the suite and the sufficient to direct attention to the suite and the sufficient to direct attention to the suite and the sufficient to direct attention to the suite and the sufficient to direct attention to the suite and tion to one fact to point out the folly, nay, the heartless injustice perpetrated by the Minister. It is there recorded, that all the tin perpetrated by the Minister. It is there recorded, that all the tin of Cornwall yields support only to sixty individuals in the smelting process, but let us inquire what is the number employed in working the mines, in dressing and returning the tin stuff. When we consider Wheal Vor in its days of prosperity, and other tin mines, the thousands of the population dependant for support, and again reflect that all the tin ores of Cornwall may be smelted by sixty to seventy individuals, how insignificant is the question, as to giving employment, by encouraging foreign ores. It may be said, that the duty at present imposed is so trifling, as to be merely nominal, and that its entire removal can do no harm, inasmuch as foreign ores are not imported; but what says the resolutions, as to the effect produced by the reduction in the duty on the import of Barca tin. The words of one of the resolutions are—"That the tin mines of Cornwall have had for

some time to struggle against an unusually low price for their produce, which has, within the last three years, caused a diminution of the quality of tin raised, to the extent of 1000 tons per annum."

This, in itself, speaks volumes. Let us again look at the present price compared with that three years since. Let us again look at the value, or rather we should say, the price paid for labour, and then how fearful the effect of this abominable measure of the Minister will be duly understood, and, doubtless, appreciated. Glad are we, then, to find that the miner is "up and stirring," and well assured do we feel that with unity of action, "One and All," the Minister, and the representatives of the county of Cornwall, will yet be taught a lesson, which will not easily be eradicated from their memory. We commend them to weigh well the measures they propose, and not too hastily to commit themselves.

Having in our last Number adverted to the proceedings in the cause, PATTESON v. HOLLAND, for infringement of patent, we have now to direct attention to the letter of the solicitor of the plaintiffs, which appears in another column, accompanied by a communication from the secretary of the "Galvanised Iron" Company. It appears, from appears in another column, accompanied by a communication from the secretary of the "Galvanised Iron" Company. It appears, from the representations therein made, that in seven out of eight counts, a verdict was given for the plaintiffs, and that it was alone on the fifth having reference to the form of specification that an exception was made in favour of the defendants—it being urged that the mode of manufacture was not in strict accordance with that described and set out in the "specification." We have reason to believe that the question will not be allowed to rest here but that ulterior proceed. set out in the "specification." We have reason to believe that the question will not be allowed to rest here, but that ulterior proceedings will be taken to quash the verdict, or so far to upset it, as affects the fifth count, it being contended, that the amended law of patents introduced, if we mistake not, by Lord Brougham, allows the patentee to withdraw any portion of the specification, which, under the former act was not permitted, any excess of words or description in the specification being held to be fatal to the patent. Horse it is conseived that, a preligation to the Philip Council to scription in the specification being held to be fatal to the patent. Hence it is conceived that an application to the Privy Council to rescind or cancel certain portions of the specification would at once render the patent perfect, while the verdict of the jury, on the first count, being to the effect, that the defendants had infringed the patent, is considered as decisive of its validity—indeed, as we observed last week, the verdict as given perfectly stultifies the jury, inasmuch that they declare the patent to have been infringed, and, at the same time, express their opinion, that the specification is imperfact that they declare the patent to have been infringed, and, at the same time, express their opinion that the specifiation is imperfect, which would alone, we should have supposed, have invalidated the patent. However, there is a pretty field for the lawyers, and there is but little doubt they will make fair game of their clients. Already another action, against the Messrs. Walker, of Gospel Oak, is, we understand, pending, which will doubtless determine the course that may be further adopted in the case under notice, whilst we can only reiterate our expressions of regret that men of scientific attainments and practical ability should thus allow themselves to be plucked by the lawyers. Why not refer the matter at issue to parties capable of judging of the merits of the respective claims, and refer any legal questions to a barrister of eminence—were claims, and refer any legal questions to a barrister of eminence—we such course pursued, we should have less law and more honesty."

A meeting of the shareholders in the Central Cornwall Railway. A meeting of the snareholders in the Central Cornwall Railway, was held on the 25th ult., and although refused admission, in the first instance, a special application met with success, and thus we are enabled to give an outline of the proceedings. We should not have intruded the matter on the attention of our readers for the company is defunct, had it not been that some little matters "oozed," out which, like the courage of Bob Acres, would have been not allowed which, like the courage of Bob Acres, would have been not allowed to escape, but for the weakness of the parties. There are three points to which we would invite attention:—1. The Chairman's jobbing;—2. The petition of Mr. Harvey;—3. The compromise. From first to last, money, money, seems to have been the idol; and yet, we have heard of speeches made by Cornishmen, who, with the amor Cornubiensi, came forward to support the only line which could be beneficial to the county; the capital for which they liberally invited parties in London, Liverpool, Manchester, and elsewhere to subscribe: but to our points.

penericial to the country; the capital for which they inberally invited parties in London, Liverpool, Manchester, and elsewhere to subscribe: but to our points.

At the meeting, Mr. Tilly, the highly respectable solicitor of the company, challenged the chairman, Edmund Turner, Esq., M.P., the liberal banker and representative of Truro, with having purchased 150 shares in the rival company (the south line) while he there presided as representing and upholding the interests of the central line. "Oh!" said Mr. Turner, "I did not buy the shares, to advance or promote their views, but for my own profit. I did, I admit, give a check for 450l., in payment of the deposit on 150 shares, at par, or 3l. per share; and my intention was, I confess, to bring them to London, and make what profit I could upon them." Good, very good, Mr. Turner, we appland you—your motive was honest at least to yourself; and we know no reason why you should not make 2 or 3l. per share premium, as well as others. Why is it, because you first supported the southern line, and then backslided and went over to the central, that you should be dedeprived of that advantage, by jobbing, to which we contend all are entitled. Most willingly would we have shared with you the profits, leaving to you all the merit you can claim, and which is, induitably your due in the transaction; and then, Sir, moreover, you are a member of Parliament, which, in itself, is sufficient to justify dubitably your due in the transaction; and then, Sir, moreover, you are a member of Parliament, which, in itself, is sufficient to justify you in changing sides, or going to the right or left, so that you realize a something; and that, if you lose your place, it is only to change it for a better. Well, the charge was admitted; Mr. Turner took his shares, at par, kindly furnished him by Mr. Broad, who did not take a narrow view of the matter, and thus the matter stands—whether they are sold, and at what premium, "deponent saith not."

Now approach we No. 2—the petition of Mr. Harvey. It appears that this gentleman had-presented a petition to the House against the South line, on the point of the Standing Orders not having been duly observed, and which it was contended by the chairman was impolitic, if not imprudent, inasmuch that he thought they

ing been duly observed, and which it was contended by the chairman was impolitic, if not imprudent, inasmuch that he thought they might make better terms with the company, by getting some few shares at par (beyond the 150, those being, of course, personal property), and which, being at 2l. per share premium, would give them, on 1750 shares, something like 3500l. to go towards the expenses which had been incurred. Here the advantage of having a chairman of monetary habits, and decidedly a man of business, as well as a Member of Parliament, was rendered manifest—yet Mr. Harver (the secretary) seemed to think that he had a right to petition in his individual capacity as a landholder; but, as the chairman and the meeting seemed to hold a different opinion, it was understood that Mr. Harver would not support his petition in person, and thus it Mr. Harver would not support his petition in person, and thus it fell to the ground, so far as this company is concerned, or that gentleman individually. We believe, however, it has been laid hold of by moore than one who wish to throw difficulties in the way, not that they have any locus standi, but simply that they may exact the

mopuses, or a certain number of shares at par.

Thus much for No. 2, and now approach we No. 3. A word or two will suffice here, the letter of the hon. Member for Truro, addressed Mr. Harver, the secretary, tells the tale—the Southerns have given to the Centralists 1750 shares, bearing a premium of 3500L, and, while they get the deposit of 5250L, at the same time, get rid of an opposition. We give these gentlemen much credit for acting with so much prudence, and the shareholders in the Central Line are indebted to the energetic labours of Mr. Turner for having got them the 3500L. We have to record the secession from the company of Mr. B. Tromas (the engineer) and of Mr. Tully (the solicitor) from office. We believe Mr. Harvey still retains his appointment, and we are informed that it is the intention to nominate, if not to elect, E. Turner, Esq., M.P., as perpetual chairman.

Terms, we understand, have been proposed by the "Southerns" to get the latter gentleman again over to their side, but no conclusive arrangements had been arrived at on our going to press.

Since writing the above, we have before us the proceedings in the House of Commons yesterday, of which a brief notice is only necessary. As understood at the meeting of the Centralists, Mr. Hanver (the secretary), although having presented the petition, declined attending in support of it; while Mr. Edmund Turker, M.P., who was present, stated it had been withdrawn—this, however, it appears, was denied. Mr. R. Thomas (the engineer) exclaimed, in round set terms, against the course pursued, he having been brought from Falmouth to give evidence in oppoposition to the South Line. His amnoyance and vexation may be well conceived, from the circumstance of his being engineer to the "Central," which, from the arrangement made, by compromise of the 1750 shares, of course may be considered now as "knocked." We do think, however, that Mr. Thomas is entitled to "a sop in the pan."

PROGRESS OF RAILWAYS.

five railways: Birmingham and Glou Chester and Birkenhe Eastern Counties London and Croydon
Manchester and Birmingham
Manchester, Bolton, and Bury
Manchester and Leeds
Midland Company
Newcastle and Carlisle
North Union rn Counties burgh and Glasgo 5943 10314 1633 2869 Great North of England
Great Western
Liverpool and Manchester
London and Birmingham Preston and Wyre South-Eastern and Dover Sheffield and Manchester 1932 16117 3245 5411 2618 2315 899 15143 1126 124 1070 Total £100,612

RAILWAYS AND THE BOARD OF TRADE

RAILWAYS AND THE BOARD OF TRADE.

The Scotch lines still engross the attention of the Board of Trade: nine different projects, submitted for their consideration, were disposed of last evening; and out of this number but one has been rejected—altogether fifteen schemes proposed, for the accommodation of the Board and adjacent Scotch counties, have been adjudicated on; of this large number, no less than twelve have been sanctioned, and three only disapproved. We are exceedingly gratified at this disposition, evinced on the part of the Government commissionary, to countenance the extension of railway communication in Scotland; the speculations, for such schemes, have been much less questionable than many in the market, and their advancement will be the furtherance of bona fide enterprise, and for the benefit of important districts hitherto unconnected. The following schemes having been under the consideration of the Board, were reported on last night:—the Aberdeen, the Dundee and Perth, the Edinburgh and Northern, the Scottish Midland, the Glasgow, Barrhead, and Neilston, the Glasgow and Ayr—Barrhead and Neilston Branch; the Whitehaven and Furness Junction, the Kendal and Windermere, and the Lowestoft; the Board have determined on reporting to Parliament in favour of all the above, with the single exception of the Glasgow and Ayr Line—Barrhead and Neilston Branch.

THE IRON TRADE.

THE IRON TRADE.

This important branch of commerce still continues its promising position, and, in proportion as the value enhances, speculators extend their operations. This evinces an anticipation of a still greater increase, and confirms our former opinion, that the advantages are not merely present, and the effect of ordinary fluctuation, but permanent and perspective. All accounts testify the progressive ascendancy of iron, and it is impossible to predict where it will stop. Most of the Welsh, Staffordshire, and Scotch ironmasters, have closed their books against any further orders at present, although the nominal prices may be quoted as follows:—Bars in Wales, 9l. per ton; ditto in London, 9l. 10s.; pigs in Glasgow, No. 1, 4l. 10s.; ditto in Wales, 5l. 15s.; rail, 10l. 15s.; nail rod, 10l. 10s.; hoop, 11l. 10s.; and steel, 12l. A further advance is looked for of 20s. per ton upon Staffordshire bars, hoops, sheets, and rods daily, as the difference in price between Welsh and Staffordshire metal must be maintained. This re-action in the British market has had its effect on Swedish iron, which, as well as steel, has, within the last week, shown an advance of 2l. per ton; a good deal of weighty business has been transacted, and the market, on the whole, has been well looking up.

FORTUNATE SPECULATION—VICTORIA IRON-WORKS.—These works, projected in 1836 in shape of a joint-stock iron company, with an inducement to the shareholders of a return of eighty per cent, and upon which 200,000l. had been recklessly expended, afterwards offered for sale in London, 1842, with no bidders, and again piecemeal, in 1844, with similar success, have been purchased, or rather taken to, by the Monmouthshire and Glamorganshire Banking Company, to cover a debt of about 16,000l. The banking company have since effected most important modifications of the lease with Sir B. Hall, and commenced working the property themselves; but, in consequence of some of the shareholders becoming needlessly alarmed, fearing the bank may suffer in a similar manner to the original proprietors, overlooking the great change in prices of iron now, as compared with that time, objected to the bank directors carrying on the same, and finding that they (the directors) had no power to attend to the management, have judiciously availed themselves of the present prosperous state of the iron trade to sell the same to gentlemen of capital and enterprise, who, we understand, are to enter on the same immediately. The price, though we cannot vouch for the exact amount, is somewhere about 120,000l. to 125,000l., which includes all stock and plant on the premises. This sale has considerably enhanced the value of bank shares, as well as a great relief to the minds of many of the shareholders.

THE CORNISH RIVAL LINES OF RAILWAY .- The petition of Mr. Har-THE CORNISH RIVAL LINES OF RAILWAY.—The petition of Mr. Harvey, the secretary to the Central Line, on the question of the Standing Orders having been complied with as regards the South, or Coast Line, which came yesterday under the consideration of the committee of the House of Commons, created a lively sensation, from the novel situation in which the committee were placed, and the somewhat anomalous position of the petitioner, the agents, and the engineer. We have only space for a brief notice. It appears from the evidence of Mr. Tilly, the solicitor, that a petition had been presented, signed by Mr. Harvey, acting for others; but that gentleman had been induced to withdraw from supporting his petition by the threats which had been made use of, that he would be dismissed from his situation, and that his salary would be withheld from be dismissed from his situation, and that his salary would be withheld from him, if he did not desist; and in yielding to those circumstances he had been guided by his (Mr. Tilly's) advice. The petitioner having thus withdrawn his opposition, it was contended, on the part of Mr. R. Thomas, as engineer, and interested in the proposed opposition, or Central Line, that as Mr. Harvey had signed the petition on behalf of others, he'(Mr. Tilley) should be allowed to go into evidence, although that gentleman might decline to come forward. The novelty of this application, as the chairman properly remarked, of A B being entitled to a hearing on the allegations of a petition, signed by C D, was such, although a reference had been been made to the highest authority in the House, as to the course they ought to adopt, yet no precedent had been found, and hence the necessity of adjourning the proceedings to allow time. Subsequently, the committee adjourned until Wednesday, at 12 o'clock, the witnesses to prove the subscription contract, having been allowed to make their depositions. y would be withheld from

Original Correspondence.

Ser.—May I request the favour of your good offices by inserting the following few lines in commection with the affairs of the above mining company. Considerably more than a million sterling has been embarked in this concern, and I think you will agree with me, that it is high time that those whose fortunes are embarked in the undertaking should expect some substantial return. Surely, if an efficient commissioner were sent out, it might lead to the most beneficial results; it is admitted by those competent to form an opinion, that the mines present several most favourable points, which would justify one in coming to the conclusion, that it is only necessary to employ proper agents to produce results of a highly favourable character. Probably, there are no mines in the republic of Mexico of a richer or more profitable kind, if properly scorked; for instance, prior to the appointment of Mr. Shoolbred as commissioner to the mines of the United Mexican Mining Company, their affairs appeared nearly hopeless, thus, since his efficient aid has been brought into requisition, the shares have risen from 10s, or 11 per share to 41. Now, the Real del Monte Mines afford many circumstances of an encouraging character, and, instead of being as it is at present, ought to yield very different results. The shares would no longer be at the nominal value of 441, but would probably be at 501, or 401, per share, if not considerably higher, and property, which a few years back were worth several hundred pounds per share, would no longer be in its present prostrate condition, consequent on inefficient management; thut I do trust that brighter days are about to make their appearance, and it is to be hoped that the holders of the shares of this mining company will be firm, and not captiously sacrifice their property at the present rediculously low price. It is stated by those who ought to know something of this company, that their affairs will, ore long, bear a very different appearance, as all mining shares cannot very well be more depr

THE IRON TRADE—BLAENAVON IRON COMPANY.

Sir,—The spirited and independent manner in which you always take up the shareholders' common grievance—the apathy of directors—has induced me to solicit a corner in your widely-circulated and influential Journal. It is a well-known fact, that the consumption of iron is every week rapidly increasing, and what I have to complain of is, that our directors have had for the last nine or twelve months two new furnaces partially finished, in which 80,000l lies sunk, and which only requires about 20,000l to bring them into work. Now, I really think, considering the present favourable time for raising money, together with the healthy state of the iron trade, that it is not too much to say great lukewarmness manifests itself in our directors and managers. If nothing else had spurred them on, the bare fact of us poor shareholders having to put up with a loss of dividend for the last three years ought to have been a sufficient inducement to exert themselves in overy way to meet the growing demand of the times. Their policy to me, as a man of business, appears quite the reverse, as I may, perhaps, have occasion to bring before your notice abortly. I do hope the shareholders of the Blaenavon in May next will support me in calling for an investigation into this and several other im-THE IRON TRADE-BLAENAVON IRON COMPANY. support ine in calling for an investigation into this and several other important matters. -London, Feb, 27.

THE TARIFF-PIG LEAD. Siz,—As you are well aware, there is a duty of 20s, per ton on pig lead (foreign), and 10s, per ton on ore retained for home consumption. The latter—the raw material—is enumerated among the 490 articles doomed by Sir Robert Peel to be free from all import duties in future—and also red, white, black, and chromate of lead—but lead in the shape of pig is omitted. May I ask you, if this omission is an error of the printer, or is it to remain in Sir Robert's new tariff unaltered?

J. W. ndon, Feb. 27.

DUTY ON WOOD USED FOR MINING PURPOSES.

Siz.—Permit me, through the columns of your valuable and widelycirculating paper, to call the attention of the mining interest to the great
advantage which would occur by the free admission into this country of
prop wood for the mines. At present, in consequence of the duty, no forright timber can be used for that purpose, and in consequence of the great
demand for larch for railroad purposes, the coalmasters are obliged to use
the thing ings of plantations, composed of birch, poplar, Scotch fir, and
other kinds of soft perishable woods, which, in consequence of being easily DUTY ON WOOD USED FOR MINING PURPOSES. other kinds of soft perishable woods, which, in consequence of being easily affected by the damp of the mines, soon decay, and cause incalculable annoyance, and loss of both life and property, all of which might be avoided by permitting the tops of the Baltic pines to come in duty free, and, of course, the size being within certain limits, no injury could be sustained by its being improperly used for other purposes in the place of the regular timber. I trust that this subject will be taken up by more able advocates than myself,—Newcastle, Feb. 25.

A Miner.

MINING IN CORNWALL-PRACTICAL MANAGEMENT. MINING IN CORNWALL—PRACTICAL MANAGEMENT.

Sin,—As you appear to feel interested in the welfare of the working miner, I have no doubt you will insert this letter, which exposes the unfairness of the present system of working, whereby many a sober hard-working miner, who is risking his life and ruining his constitution for the benefit of the adventurers, is not able, with every economy, honestly to maintain his family, while those that are lazy are encouraged to be so. In the old system it was customary to set for two months, price in sight, and either side to risk the ground's improvement or otherwise, and then to set again for price in sight; but now they are only to work a certain length. cither side to risk the ground's improvement or otherwise, and then to set again for price in sight; but now they are only to work a certain length, and then their take is out, which, although it is not of much consequence, often stops them from exerting themselves to their atmost; and if it proves that they have got more than a certain sum—say 3l. per month—the next bargain that is set to them, instead of being set according to price in sight, is set so as to bring both months back to the standard; or, what is often the case, a part of the ground is not measured, but left to be put with the next month's earnings, and the price of ground opened accordingly, so that men have no encouragement to exert themselves; for, if they work hard and earn a little extra wages one month, it is sure to be taken from them the next; or, in case the ground turns in their favour, they may as well be idle half their time, for they have no advantage in getting more than a certain price; and the sdventurers lose, in not having their ground spent and proved, as fast as they otherwise would. But if, on the other hand, the ground turns against the miner, or it proves a bad take, he has no extra price the next month to make up the deficiency; and it is much oftener this way than the other, so that the month's wages, instead of being what is nominally allowed, say 3l., is often not more than 25s., 30s., or 2l.; and as the miner has to go four and five weeks without money, and thereby obliged to live much on credit, and, consequently, not able to purchase at the cheapest rate, and in populous districts obliged to pay heavy houserent, and often obliged to maintain himself and his family-separate, he finds himself unable to meet his creditors, and the honest man is bowed down and often counted as a rogue.

Nor dees the fault exist, in the main, with the agents of the mine, but

rent, and otten counted as a rogue.

Nor does the fault exist, in the main, with the agents of the mine, but in the management of the mine being carried on in London, among those who do not understand the practical part; for instance, the London directors order that the men are not to get more than 3t—men take their ground, and, after working a little, it turns in their favour; if they then continue to work brisk, and the length they have to drive lasts them the month, they get, say 4t, or 4t. 10s, or it may be more; if this were sent to London, the captains would get a reprimand; so, to remedy this, a mart of the ground is not measured, so that the miner has no chance, and mart of the ground is not measured, so that the miner has no chance, and he was a sent that the last only the ground that the last only a last a play. part of the ground is not measured, so that the miner has no chahee, and he finds he is no gainer by the ground turning in his favour, and he may as well work easy as hard; or, if the length of the ground set lasts only part of the month, the next take is set so as to bring back the price to its level. These are things which are little known by the London men, but perfectly understood by every practical agent; and it would be well if adventurers would select trustworthy agents, practical men, which are to be found, and submit the management of the mine to them—they would then have much more work done for their money, and their ground would be spent and proved much quicker.

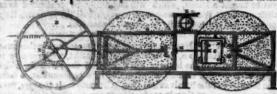
Public companies have, no doubt, been deceived by unprincipled agents, but I doubt if the loss in this way was ever proportionate to the constant drainage by the expense of keeping offices in London and directors' salaries, and it would be well for the adventurers to consider the case of the poor miner, who labours for their profit, and see that he has a proper share of the money expended. If a mine cannot be worked without poor men being half starved, or deep in debt, which is abundantly the case among

sober and industrious, even in mines making flarge returns, they had ter be given up, or else others take who have more money. I have no flat some practical man meeting with this, will be enabled to explain it or fully.

AN ADVENTIBLE.

THE LAWS OF MOTION—NEW INVENTION.—No. VI.

in,—As you are pleased to reserve room in your columns for my hum-offerings, I herewith forward another engraving, with the aid of which I I endeavour to describe as well as I can the application of my invention. In this cut, as in that of last week, proportions or location of gearing is regarded—my present object being only to show in the plainest manner form and action of the machine, upon one elevated side of which the edirects your eye. The dotted surfaces within the two right-hand circles.



marked A, are solid sections of cylinders, which, in connection with their framework or bodies, I call cars, which move to and from one another upon a perfect plane; the left-hand circle, marked B, is a fly-wheel; G is a part of the framework or bodies of the cars; F is a side view of the fixed framework upon which the car bodies slide; C is a steam-engine cylinder, cut vartically through the middle, and laying horizontally, which is fixed to the right-hand car body; M, the steam-bax; N, the supply valves, with their shanks, protruding through the steam-box; H, the piston, the end of the rod of which is fixed to the left-hand car body; O, the escape valves, their shanks, playing through braces bolied to the cylinder; L, the racks of either car; K, the pinion which unites tham; D, combined racks and lever, which work upon a bearing on the end of the left-hand car body, and extend across the fly-wheel; E, the pinion, which works between the racks, and should be of the same radius as that which the crank describes, but is shown larger for the sake of conspicuity; I the connection rod, with a slot on the end, which permits it to play back and forward on the crank. The cut represents the cars near their extreme points of separation, the pinion on the fly-wheel free from the racks, and the crank of the fly-wheel in the act of taking up the momentum of the cars from the connection rods. When the crank shall have reached its centre, the cogs on the pinion will have passed round, so as to admit a connection with the crank is a little past the half centre, when the connection rod overtakes the crank, and casts the momentum of the cars again upon it, at which point the cogs of the pinion have passed round, so as to free it from the rack, which will fall when the crank gets to the centre, and again unite the motions of the cars and the life wheel. The peculiar action of the steam may be understood by looking to last week's Journal.—Feb. 27.

THE EXPLOSION OF THE "HK" LOCOMOTIVE-ENGINE.

Journal.—Feb. 27.

THE EXPLOSION OF THE "IRK" LOCOMOTIVE-ENGINE.

Sin,—Explosions in locomotive-engines on railways have hitherto been confined to hoo—indeed, we had supposed them absolutely safe, till startled from our reveries and fancied security, by the cases in question. The binsting of a pipe, or even pipes, in the body of the cylindrical part of the locomotive-engine is a bagatelle; not so when the explosion occurs in connection with the fire-box, and the three deaths occasioned by the explosion of the Irk locomotive, on the Manchester and Leeda Railway, are terrible trophies of its formidable power. I beg now to submit to your a few remarks connected with the cause of this catastrophe, as having occurred to me by calmly reflecting on the evidence adduced on the impact, confirmed by some inquiries I have made on the subject. The question is of immense importance to the community, and may well warrant attention. It cannot but think that the mere leakage of the engine may be safely left out of consideration, and had nothing to do with the circumstances of the cause of the explosion. Many locomotive-engines are chargeable with leakage, and yet perform their work well. By John Hall's evidence, &c., we have ample proof of the employment of cannel coal, as well as wood. Sudden evolutions of Hame ought so be most, calously guarded against; since, as a natural consequence, the partial and local action of bursts of flame must give rise to sudden extrications of highly elastic steam, which will impinge on the dome immediately over the point of extrication. Let it never be forgotten here, that water, even at 242 deg., is a bad conductor of caloric, and will not immediately diffuse the evolved temperature. The only safety valve that could have been of the beat see in this case was that immediately over the fire-box, and there appears sufficient evidence to prove that it had been temperature with, and was, in all probability, at the time of the accident, fast. The other safety valve in the revidence to prove that it JOURNAL.—Feb. 27.

THE EXPLOSION OF THE "IRK" LOCOMOTIVE-ENGINE. play of technical computations for the consideration of the jury, afid, however the formulæ and their adjuncts might have suited the areas of an institute of civil engineers, these displays seem to have been entirely out of place before a jury on a coroner's inquest, who cannot be supposed capable of appreciating such mathematical abstractions. My own decided opinion is, that Mr. Fairbairn has signally failed in accounting for the darkened portion of the rent copper. That it proceeded from an imperfection or flaw in the copper, I cannot doubt, and hence this (the weskest) part gave way, and formed a rent for the first outburst: of stemu. Mr. Fairbairn's opinion on the cause of the explosion is certainly new to chemical science—viz., that "a body of water and vapour were discharged on the glowing embers of the furnace, whereby the carburetted hydrogen and carbonic oxide were charged with their equivalents of oxygen, and so explosion," &c.!!! I am afraid I should have been inclined to write a severe commentary on this singular opinion, if he had not avowed himself ignorant of "theoretical chemistry." Mr. Fairbairn may be assured that the "British Association" has too much to do with rock salt lenses, and other noof "theoretical chemistry." Mr. Fairbairn may be assured that the "British Association" has too much to do with rock salt lenses, and other notable things, to attend to such minor considerations as explosions, whether in steam-boilers or in coal mines! According to Mr. Fairbairn, if both valves had operated freely, explosions were impossible, and, within certain limits, this may be true, if the copper had been sound. It is altogether impossible for me to have received a more triumphant confirmation of my views, already fully eliminated in your pages, than the explosion of the Irk has supplied. It is found in what is called by Mr. Bury "an undue pressure in the boile?"—arising, questionless, from the sudden extrication of highly elastic steam of tremendous power and pressure. The recoil had "thrown the engine up," "caused entirely (according to Mr. Bury) by the pressure of the steam." There can be no reasonable doubt about the matter. The impress of the recoil in the pit was sufficiently emphatic, and the engine was blown up, on the principle of the rocket and its recoil. I think Mr. Fairbairn's deductions are founded on an error in judgment—that he is a most honourable man there can be no doubt. that he is a most honourable man there can be no doubt

Hull, Feb. 25. THE VACUUM OCCASIONED BY EXPLOSION. THE VACUUM OCCASIONED BY EXPLOSION.

"Sin,—That a vacuum is occasioned by the explosion of "fire damp" in mines is self-evident, but your correspondent, Mr. Rogers, may be assured that it can only be of momentary duration, and the revulsion which supplies the vacuum with carbonic acid gas is instantaneous. At this moment asphyxia supervenes, from the spasmodic collapse of the epiglottes, the immediate effect of the action of the carbonic acid gas. Were it so contrived that vacter was present, asphyxia would be prevented, as exemplified in the case of those who were thus saved in the explosion which took place lately in the Margam Colliery.

J. Murray.

Hull, Feb, 24.

MANUFACTURE OF BRICKS.

Hall, Feb, 24.

MANUFACTURE OF BRICKS.

Sire,—I am anxious to call your attention to a subject of deep importance, epecially to civil engineers, and to the public generally—I mean the manufacture of bricks. Should the clay of which bricks are made be contaminated with fragments, however minute, of chalk or limestone, the consequences may be very serious. On transference to the furnace, the carbonate is converted into quickline, and, when the bricks are moistened, they necessarily burst, and crumble to pieces. In the case of bricks used in tunnels, this is of paramount moment, and will explain the destruction of the tunnel of Comptiel, between Belgium and Rhenish Trussia. The fault day with the brickmaker, not the engineer. I have seen the destruc-

ion of an eartherware vessel from this cause, as soon as wat nto it. Qu?—May it not be sometimes done in order to m ands for eartherware? In the case of bricks, the quest ry serious and important co

TAW OF PATENTS—GALVANISED IRON.

Sir.—The remarks in your valuable paper of last week, and the law report under the head of "Galvanised Iron," being, as I read them, calculated to misicad the public as to the present state of the question. I beg leave to request that you will have the goodness to insert the following letter from the solicitor (Mr. Wadeson), acting for the patentees, which will, I have no doubt, have the effect of showing the public that the patentees as abstantially established, and I beg further to call the attention of your Journal, as a warning to all parties infringing the attention of your Journal, as a warning to all parties infringing the important and valuable patent.

I am, Sir, your most obedient servant, 3, Mansion-house-place, London, Feb. 28.

PATTENON C. ROLLAND.

DEAR Sir.—In answer to your letter of vesterday, I beg to say that the view I sake of the verdict in this cause, is that it is substantially a verdict for the plaintiffs. Out in edge in this country; that the same was, and is, of public use; and that the devandants are infringers of the invention. The fifth issue, that the patentee did not sufficiently describe the nature and manner of working his invention, he jury, as your are ware, decided for the defendants, but all the plaintiffs 'connel concern' to option; that the decision is an erroneous one, and against evidence, and that the decidence he be at saids; and I need not tell you, who are so well acquainted with the practical mannincture of the patented article, that on this, the only point on which the plaintiffs have not be set aside; and I need the nature and manner of question, of establishing the incorrectness of immediately succeede, there can be no difficulty in establishing most conclusively, and without a hadow of doubt, the affirmative of this issue. I, therefore, so not hestiate to say, turing in the plaintiffs, whereby it would be established that the plaintiffs have not immediately succeeded, there can be no difficulty in establishing the incorrectness o

Secretary to the Patent disasteed from Co.

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**Secretary to the Patent disasteed from Co.

RAILROADS IN SPAIN.

**Secretary to the Patent disasteed from Co.

**Secretary to Co.

**S RAILROADS IN SPAIN. be more expensive than the present transit. Castile produces much corn, which is consumed by the Havanna, which colony depends solely for her supplies on the mother country; this might be exported from Gijorf and Avilez, probably at a less expense than from Cadiz, though the latter porter from its ability to take large supplies of colonial produce, would materially reduce the freights, both out and home. In the Asturius a great quantity of maize, on Indian corn, is grown—very little wheat is consumed by the inhabitants, maize being so much cheaper and nearly as matritions. Wine, at present, is dear here, probably the maibond might make some reduction in the price of that article, but there can be no great consumption, the private abounding in cyder, which can be purchased at one-eighth the price, and is consumed by all classes. To carry wine for exportation is riderlous; it is shipped now from Cadiz, and, on the completion of that railroad, would defy competition with any part of Spain. When the col mines of Asturias are worked, I believe they will be able to carry oals from the interior of the province to 'Avilez or Gijon for exportation, even nally to the amount of some thousand tons, though this will be some time

before taken of English there is to the p question of the s enti-rifling Ovice Altho fferen

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—a dist in. The wer Can in coal half fro course highly b o be let a royalty before they are worked to any extent. Much notice has not hitherto been taken of them; M. Aguado has worked one mise, and, I believe, some English company are thinking of working others. The projected line, there is no doubt, will be of great advantage to the province, and probably othe projectors; what benefits can possibly result to the speculators, is a question those on the spot are unable to discover; but, like many schemes of the same nature, hidden sources of unheard wealth, only known to the mitiated, may burst forth, and pour fortune in the laps of those who can preciate the advantages and the golden stream which this El Dorado ents, having previously had the courage and prudence to embark the riding capital required for this herculanean undertaking.

Oriedo, Feb. 13.

AN IDLER IN THE ASTURIAS.

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IMPROVED MANUFACTURE OF CAST STEEL.

Although it has long been known to chemists, that the only essential ifference between east-iron and cast-steel consisted in the relative proporous of earbou contained in the two substances, it has yet been found impactively included the produce the latter substances at a less cost than from ur to eight times that of the pig-iron from which it's made. For instance, pig-iron, made with characel and the relative materials suitable for the municurer of steel, cost of, it will be found, that according to the prosess now universally used, east steel cannot be made from such iron as any material of which bears a monopoly price, the cost of cast steel in the upon, comest on early double this price. The cause of this cost arises from the real waste and labour necessary to deprive the pig-iron, in the first in ance, of the whole of its carbon, amounting to about 5 per cent, and to there it into malleable iron; this iron is then recombined with about per cent, of carbon, in the processor of comentation, forming blistered steel in crubles of fire clay and run it into moulds. If the cost of pig-iron, of edium quality, fit for making steel-iron, be 64 at on, the loss on convertigit into bars is one-third, or 2l. more; the average cost of labour, fuel, ad other charges, on making a ton of charcoal bars, will be 5l. more; the region merchant's profit, freight, insurance, import duty, and other charges, the convertige of the convertigation of the conv IMPROVED MANUFACTURE OF CAST STEEL. Although it has long been known to chemists, that the only essential fiference between cast-iron and cast-steel consisted in the relative propor-

GASPE FISHERY AND COAL MINING COMPANY.

GASPE FISHERY AND COAL MINING COMPANY.

To last week briefly noticed the formation of a new company, entitled Gaspe Fishery and Coal Mining Company," for the purpose of more developing the fisheries in the Gulph of St. Lawrence; an appendix e original prospectus has since been issued, in which the advantages of isheries are prominently discussed. It appears that the district of Gaspe, hich the operations of the company will be chiefly conducted, comes a population of from 15,000 to 20,000 souls. The soil generally is lent; thus tending to raise prospects of the prosperity and increase of habitants, especially as the climate is healthy, and the fisheries holdaut a probability of cheap food, a large emigration may be anticipated, demand for labour, which will necessarily follow an increase and in of trade, will alone collect an increasein the price of the wance the interests of the company, by a rapid rise in the value and combine of their various commodities, but an increase in the price of the mple of the properties. The expectations for the prospective income xpenditure of the body, founded on apparently good and sufficient are very sanguine, and anticipate a net return from cod fishery per m of 28,2331, and the lumber trade, 14,617 10s.—making a total of 01 10s.; the expenditure not being expected to exceed 12,0001, indeg 7,5001 for the payment of interest on capital, at 5 per cent., leavprofit of above 30,8501—or more than 20 per cent. on the capital of orporation. It will be seen that, in the above estimate, no mention is of the coal trade, although the most confident hopes of success are ained by the company. The Port Daniel Coal-field is situate in the diate vicinity of the harbour of the same name, twenty-seven miles fee property at Bonaventure, and fifteen miles west of that at Pabos, the coat trade, although the most confident hopes of success are tained by the company. The Port Daniel Coal-field is situate in the diate vicinity of the harbour of the same name, twenty-seven miles the property at Bonaventure, and fifteen miles west of that at Pabos, rising about 3500 acres of land. The sections have been selected so are to the company the exclusive possession of the entire coal-file estates are purged from all seignorial rights, and are held in free ommon soccage. The harbour, at Port Daniel, is the best within the of Chaleurs, and the only one on the shore between Gaspe and Dalse-a distance of 140 miles—in which vessels can load in summer and an. The approach to it is also more direct than to any other harbour wer Canada, which will, it is expected, ensure a transfer of the whole in coal to this district. The coal-field commences about one mile half from the mouth of the river, and extends about four miles in a course inland. The coal, after careful investigation, is pronounced in half from the mouth of the river, and extends about four miles in a course inland. The coal, after careful investigation, is pronounced in half from the mouth of the river, and extends about four miles in a course inland. The coal, after careful investigation, is pronounced in the property in the course in land. The coal-field commences about one mile half from the mouth of the river, and extends about four miles in a course inland. The coal-field commences about one mile half from the mouth of the river, and extends about four miles in a course inland. The coal-field commences about one mile half from the mouth of the river, and extends about four miles in a course inland. The coal-field commences about one mile half from the mouth of the river, and extends about four miles in a course inland. The coal-field commences about one mile half from the mouth of the river and the property have the whole in coal to this district.

Mining Correspondence.

ENGLISH MINES.

ENGLISH MINES.

HOLMENH MINES COMPANY.

Fib. 24.—In the cross-cut south of the sump winze, at the 120 fathem level, the ground still continues favourable. In the 110 fathem level, west of Hitchine's shaft, the lode is fifteen inches wide, and worth 18\(l) per fathem, and still promising improvement; in the stopes wide, and worth 2\(l\) per fathem, and still promising improvement; in the stopes wide, and worth 2\(l\) per fathem; in the stopes west of Lobb's winze the lode is fifteen inches wide, and worth 2\(l\) per fathem; in the stopes west of Lobb's winze the lode is fifteen inches wide, and worth 16\(l\) per fathem. In the 100 fathem level, west of Hitchine's shaft, the lode is still in a disordered state; in the stopes in the back of this level, east of Forest's winze, the lode is one foot wide, and worth 12\(l\) per fathem; in the stopes west of Hitchine's shaft, the lode is fourteen inches wide, and worth 14\(l\) per fathem; in the stopes west of the south cross-cut, the lode is sixteen inches wide, and worth 2\(l\) per fathem; in the winze sinking below this level the lode is twenty inches wide, and worth 4\(l\) per fathem. In the ninety fathem level, west of Hitchine's shaft, the lode is small and poor; the winze in the bottom of this level is communicated with the stope in the back of the ninety fathem level the lode is fourteen inches wide, and worth 16\(l\) per fathom. In the rise in the back of the eighty fathem level the lode is aix inches wide, producing stones of ore.

Clustock, Feb. 24.—We are still driving on the adit level, on the Middle lode, towards the cross-course; the ground is faig, the lode is large, and still improving, with a most promising appearance, containing good stones of yellow and black copper ore, and rich for silver. We are now about seven fathoms in depth.

NORTH HOLMBUSH MINING COMPANY.

Feb. 24.—In driving on the course of the lode, east of cross-cut, at the sixteen

proving, with a most promising appearance, containing good stones of years and black copper ore, and rich for silver. We are now about seven fathoms in depth.

NORTH HOLMBUSH MINING COMPANY.

Feb. 24.—In driving on the course of the lode, east of cross-cut, at the sixteen fathom level, the lode has much the same appearance, composed of capel, nundic, killas, and spar.

T. RICHARDS.

GHEAT WHEAL MARTHA CONSOLIDATED MINES.

Feb. 26.—Our regular report day is not until Saturday next, but I have thought it prudent to send a short report at once, as you will, doubtless, be gratified to learn that we have a most decided improvement in the new mine; the ten fathom level, going west, I am happy to say is still improving, its lode is now five feet wide, two feet of which is turning out ore of a good quality, and the remainder of the lode is over throughout. In the twenty fathom level west the lode is five feet wide, composed of mundic, spar, and copper; as we proceed in this level, we may expect an increase of ore, as we shall be getting under the shoot in the level above, and immediately under which we calculate on having a rich course; in the twenty, going east, the lode is four feet wide, composed of capel, mundic, and copper, and presenting a kindly appearance. In the deep adit we are driving by the side of the lode, ground tavourable. The engine-shaft in the higher mine is now sunk 7 fms, 5 ft. below the seventy; the lode is seven feet wide, composed of which is saving work, and I am glad to say that our prospects continue to improve. We are about to put down some pits on the spot, where it appears, from dialling, that Wheal Maria lode passes.

THOMAS PENALUNA.

BEDFORD UNITED MINING COMPANY.

In the sixty oast the lode is eighteen inches wide, composed or spar, numeral and capel, spotted with ores. In storping the bottoms of the sixty the lode is four feet wide, eighteen inches of which is saving work, and I am glad to say that our prospects continue to improve. We are about to put down some pits on the spot, where it appears, from dialling, that Wheal Maria lode passes.

Feb. 24.—At Wheal Marquis the cross-cut south, at the lode is read to the spot of the provided of the long of the spot of the long of t

fathom. The lode in the thirty east, on Moreom's, is three feet wide, composed of spar, mundic, and occasionally stones of yellow ore. The lode on Wilkinson's engine-shaft is three and a half feet wide, very promising for ore. The lode in the fifteen, east on ditto, is eighteen inches wide, with good stones of ore in the bottom of the level.

S. Lean. R. John's.

in the bottom of the level.

CORVUBIAN MINING COMPANY.

Feb. 24.—Since my last of the 17th inst., we have got the accident (then reported to you as having occurred to the home water lift) repaired, and the engines are working regularly, water in fork, &c., not much, however, has yet been done. In the eighty-six fathom level we have driven west of the engineshaft about seven feet; Chiverton lode there is two feet wide, chiefly flookan and soft spar, and promising to make lead; in the east end, at this level, the lode is much of the same character, but not so large. At the seventy-eight fathom level, going east, we have cut through the north lode, and find it eighteen inches wide, of mundic and spar, letting down a great deal of water, and which has caused the pitches working over in the bottom of the seventy to be drained. In the several pitches working, we have nothing new to notice; the men are working well, and most of them raising fair quantities of work. The last parcel of lead, computed thirty tons, sampled 16th inst., is bought at 134. 7s. per ten.

Richard Rowe.

TRELEIGH CONSOLS MINING COMPANY.

Feb. 22.—The lode in the forty-four, west of Good Fortune, is twenty inches wide, looking kindly; but not much ore. The lode in the thirty-four west is improved, and is now twenty inches wide, with good stones of ore. The lode in the twenty west is two feet wide, worth 4t. Per fathom. The adit west is a promising lode, lifteen inches wide. We have no alteration in any of the other parts of the mine, the water having been in during the week; we are now working to satisfaction, and forking the water as well as could be calculated on, and we hope early next week to get most of the men to work in their respective places.

COOK'S KITCHEN MINE.

redefendering Manning

and we hope early next week to get most of the men to work in their respective places.

COOK'S KITCHEN MIKE.

Feb. 22.—In the cross-cut south from flat-red shaft, at the seventy fathoms level, we have about four fathoms more to drive to cut North Tincroft lode; the price for driving is 62. 10s. per fathom. The pitches in the bottom of the sixty fathom level we have this day set to stope on tutwork, not having seen the south wall below the sixty; we shall now have an opportunity of proving the south wall below the sixty; we shall now have an opportunity of proving the south wall below the hole. The pitch in the bottom of the fifty we have set at 6s. 8d. in the 12, which we think is a fair tribute. Chapple's lode, in the 121 east, we are carrying three and a half feet wide, which is worth 94, per fathom for tin; the ground continues hard in the cross-cut at the ninety fathom level to cut Endey's lode. Dunkin's lode, in the 170 west, is two feet wide, producing stones of tin; as soon as we have communicated this level to the winze sunk under the 160, about twenty-five fathoms further west, where we hind a very good lode for tin, we shall then be enabled to work that ground this day set a new pitch in the back of the 160, on this lode, twenty fathoms further west than the above winze, at 6s. 8d. in the 14. for tin and ore, which we consider a fair tribute. In the cross-cut north, at the 140 fathom level, the ground still continues favourable; we have about six fathoms more to drive, to cut the lode. We have not yet cut the lode in the cross-cut south from Regers's shaft, at the twenty-nine fathom level. The Druid shaft is now down about fifteen fathoms from surface, but are obliged to suspend it on account of the water. Our tin pitches throughout the mine are still looking favourable; also those on copper on North Tineroft lode.

FOREIGN MINES.

gers's shaft, at the twenty-miss states about fifteen frithous from surface, but are obliged to suspend it on account of the water. Our tin pitches throughout the mine are still looking favourable; also those on copper on North Timerof lode.

FOREIGN MINES.

FOREIGN MINES.

FOREIGN MINES.

**Morro Velko, Dec. 8.—Produce for November 10,887 oits., 104-7,876 lbs. Trey from 2642 tons of ore == 4169 oits. per ton; 427 tons of rejected ores form part, of the quantity of ores stamped, which, as nearly as can be estimated, have yielded about 14 oits. per ton. The western Cachoeira ores, 811 tons, have this month yielded 402 oits, and yet only 5 per cut. of these ores were rejected. It really appears as if Captain Verran's expectations were being realised, that these ores improve in depth. This section of the mine, the West Cachoeira, which has only been opsned for stoping during a few months, has furnished this month 811 tons of ore, while the East Cachoeira as furnished only 446 8 tons, and yet is of considerably shorter length than the latter section, but very much wide. It is needless to observe, that, had a fall supply of ores from the mine been furnished, so as to avoid having recourse to the rejected ores, the produce would have been 11,308 oits.

Mine Report.—The pitwork in the Gamba is all completed and working well; the water is not quite in fork. The cores supplied during the month have been entirely from the United Mines and the Cachoeiras; the driving in the West Cachoeira, through the lode which still separates it from the Bain is progressing slowly—the stone is so dreadfully hard; the importance of laying open this ground, which is at grass (surface), may be easily appreciated, since Mr. Helmreichen tells me it contains fifty—six square fathoms of lode; and, though the company has never worked on this part of the lode, Mr. Crickit always said it contained ore, only second in quality to the Bahu ores; this ground ought to be driven from the discussion of the mechanics. To-morrow the Lyon s

Total from 1st January to 21st December 107 - 7 9 0

CARADON UNITED MINES.—A meeting of the shareholders was held an Tuesday last in London, O. SMITH, Esq., in the chair, when a call of 2*L* per share was made. The reports from the mine were very encouraging, and a steamengine is to be erected forthwith.

IMPROVEMENTS IN AIR OR GAS ENGINES.

IT JOSEPH ROBINSON, ESS.

The vast importance of any invention whereby the above object could be attained, must be manifest at a view. Some such design has long been wanted, and, if the results answer the anticipations of the inventor, their value and utility will be soon perceived. The preposition appears simple, and at the same time ingenious, and we should feel antisfaction in seeing it broughts to practical maturity and completion. The invention consists of an inflammable gas or vapour engine, whereby nower is obtained by the expansion consequent upon the combustion of the vapour of spirits of turpentine, or other inflammable liquid or air, by the aid of atmospheric air, within a cylinder similar to that in the steam-engine; whilst carburetted hydrogen may be used, the inventor prefers liquids, as, by their employment, the engine may be applied to locomotion. The vapour-generator, into which the liquid is admitted, is governed by a cock; the retort, having tubular openings through it, is surrounded by a case, so as to leave a space for the passage of heated air for warming the retort, under which is a small furnace lamp, the outer case of the retort being perforated to admit heat. A valve-box is connected with the cylinder, so as to give a supply of the combustible gas and atmosphere at each end alternately; the interior of this valve-box is truly cylindrical, and to it is fitted a cylindrical tube, to revolve within the box, a bevil-wheel being on its shaft, driven by gearing connected with the shaft of the fly-wheel. The tube is closed at its ends, and the interior is divided into three chambers, in all of which are two openings covered with stopping valves, which close by their own gravity. The openings are exhaust openings, admitting the residuary contents of the cylinder to pass into the chambers. The tubes are also exhaust tubes; the air and vapour. An extra content of the cylinder to pass into the chambers. The tubes are also exhaust tubes; it he air and vapour an

Current Prices of Stocks, Shares, & Metals. ENGLISH AND FOREIGN STOCKS.

STOCK EXCHANGE, Saturday me Consols, Money, 99‡ ‡
ditto, Account, 99‡ 10
3‡ per Cents, 104 ‡
Reduced 3 per Cents, 103‡ 4
Long Annulties, 12 1-16 3-16
Bank Stock, 212 213
Exchequer Bills, 58 69 pm.
Belgian, 5 per Cents, 101 2
Danish, 3 per Cents, 101 2
Danish, 3 per Cents, 69 90
Portuguese, Conv., 5 per Cents, 61 ‡

AKGE, Saturday morning, Tucele of Dutch, 2½ per Centa., 634 ½ ditto, 4 per Centa., 984 9½ Russian, 5 per Centa., 1162 119½ Spanish, 5 per Centa., 404 ½ Brazil, 5 per Centa., 404 ½ Brazil, 5 per Centa., 405 9 Chill, 6 per Centa., 106 2 Colombia, 6 per Centa., 134 144 Mexican, 5 per Centa., 336 64 Feru, 6 per Centa., 336 64

[From our own Correspondents.]

LATEST PRICES OF IRISH STOCKS.—3 per Cent. Consols, 994l. to 994l.; 3 per Cent. Reduced, —4, 34 per Cent. Stock, 103l. to 1024l.; 34 per Cent. Debentures, 944l. to 95f.; Bank Stock, 213l.—Dublin and Kingstown Railway, 240f.; Drogheds, 80f.; 6f. Southern and Western, 114l.; Dublin and Refinest Junction, 54l.; Dublin and Athlone, 24l.; Dublin and Galway, 24l.; Belista and Ballymena, 44l.; Limerick and Waterford, 44l.; Dandelk, and Emiskellen, 34l.; Wexford and Carlow, 3l.—Hibernian Bank, 36l.; Mational Bark of Iroland, 154l.; Kyl.; Mining Company of Ireland, 134l.; Wicklow Copper Mine, 19l.; City of Dublin Steam Company, 1994l.; British and Irish Steam Company, 1994l.; British and Irish Steam Company, 53l.; Dublin and Glasgow ditto, 44l.; Steam-ship Building ditto, 53l.

CURRENT PRICES AT LIVERPOOL-THURSDAY EVENING.

Stock. Closing pr. Sales.	1. Stock. Closing pr. Sales.
Aberdeen Railway £24 24	London&South-Western 774 784
Barnsley Junction 64 61 64	London and York 7 72 7 #
Belfast and Ballymena 31 34 31	Lynn and Ely 4 54
Blackburn & Accrington 5 54	Lynn and Dereham 1# 1#
Blackburn and Bolton 34 34	Leeds and West Riding. 64 64
Blackburn and Preston. 144 15	Limerick and Waterford 4# 44 4#
Birkenhead, Manch., &c. 71 71 71 1	Manchester and Goole !dis ipm
Birming. & Gloucester 131 132	Manchester & Birming. 65# 66# 65 6 5
Bolton, Wig., & Liverp. 74 74	Manch., Bolton, & Bury 128 130
Bristol and Exeter 824 834	Manch. & Rossendale 101 101
Bristol and Gloucester 57 58	Manchester & Buxton .: 34 34
Caledonian 61 71 7	Manchester and Leeds 139 140 140
Cambridge and Lincoln. 24 21	Midland Stock 125 1264
Chester & Birkenhead 38 39	Mullingar and Athlone 11 2
Chester and Holyhead 71 84 8	Newcastle and Berwick 13 14 181
Chester and Holyhead. 7 8 . 8 . 8 Churnet Valley 7 7 7 7 1 1 4 Cork and Bandon 3 3 34	Newcastle and Carlisle 12241234
Cork and Bandon 34 31 34	Newcastle & Darlington 48 50
Cork & Limerick, Direct 14 11	North British 134 134 134
Direct Northern 2 24 2	North Kent 24 3
Dublin and Belfast 51 6	North Union, Stock A 137 138 138
Dublin and Cashel 114 114	Ditto ditto B. 81 82
Dublin and Galway 3 34 34	North Wales Mineral 111 111
Dublin and Drogheda 78 79	Norwich and Brandon 16 17
Dundalk & Enniskillen., 2 21	Oxford, Worc., & Rugby 34 34 34
Dundee and Perth 31 31	Preston and Wyre 24 25 25
Eastern Counties 17 174	Scottish Central 4 42
Edinburgh and Glasgow 624 634	St. Helens & Runcorn G. 224 224
Edinburgh & Granton 14 15	Sheffield and Lincoln 14 14
Edinburgh & Northern. 11 11	Sheffield & Manchester 104 105
Ely and Bedford 11 11	Shrewsbury & Gr. Junc. 54 54 54 4
Glasgow, Dumfries, &c # 1 1	Shrewsb. Wolverh., &c. 41 41
Glasgow and Greenock 151 161 151	South-Eastern 411 411 401 11
Glasgow, Paisley, & Ayr 65 66	South Wales 4 5
Grand Junction 221 223	Trent Valley 19 20
Gt. Grimsby & Sheffield 21 21	Ulster 441 454
Gt. North of England 188 192	West Yorkshire 34 34
Great Western 178 180	Yarmouth and Norwich 27 28 2
Harwich 11 14	York & North Midland 105 107
Huddersfield and Manch. 51 51	York and Selby 68 70 —
Huddersfield & Sheffield 4 4	Wexford and Carlow 2 3 2
Hull and Selby 82 84 81	
Kendal & Windermere 4 4 4	Boulogne and Amiens . 54 54
Kilkenny Junction 1 1 1	Con. Central of France., 13t 14
Lancaster and Carlisle 29 30	Lyons and Avignon 2 2 2
Lancaster and Preston 51 52 —	Northern of France 54 54
Leeds and Bradford 22 23	Orleans, T., & Bordeaux 7 7 6 7
Leeds and Dewsbury 3 3	Paris and Lyons 3 34
Leeds and Thirsk 31 31	Paris and Orleans 461 461
Liverpool & Manchester 204 206	Paris and Rouen 424 425
Liverpool and Preston 3 34 3	Paris and Strasburg 24 24 — Rouen and Havre 29 29 —
London & Birmingham 228 230 —	Rouen and Havre 29 29
London and Blackwall 7 7 7	Sambre and Meuse 3 3 3
London and Brighton 59 601 601 591	Strasburg and Basle 12 12 — Tours and Nantes 11 11 11
London and Croydon . 18 19	
London and Portsmouth 2 21	Jamaica 284 294 —
13, Castle-street and Stock Exchange, Live	rpool. JOHN GREAVES.

opposition at 21 M., a

Ditto, £40 shares Manchester and Le West Yorks

HULL, Thrusanx—During the period that has elapsed since our last reports, up to vesterday, the market has been dull, with a dispession to realise, and, in some instances, to press sales; this morning, however, we note an altered appearance, and during the next few days we look for rising prices. Hull and Selbys have advanced fully 5ℓ, per Bellinking the control of the same and the half shares are much in request.

snare since yesterday, and the half shares are much in request.

EDINBURGH, TRUBBDAT.—Aberdeen, 2½1.; Arborath and Forfar, 15/.; Ballochney,

-l.; Caledonian, 7l.; Dundee and Arbroath, 33/.; Dundee and Perth, 3½/.; Dalkeith
and Leith Branch, 7l.; Edinburgh and Glasgow, 62½/.; Edinburgh, Leith, and Granton,
15/.; Edinburgh and Northern, 1½f.; Glasgow and Ayrshire, 65/.; Glasgow and Garnekirk, 30/.; Glasgow and Greenock, 15/.; Glasgow, Dumfries, and Carlisle, ½l.; Monkland and Krikntilloch, 30/4; North British, 13½l.; Scottish Central, 4½l.; Slamannan, 16l.;
Wishaw and Coltness, 39/.

COPPER ORES

Sampled Jan. 12, and sold at Farquharson's Hotel, Truro, Jan. 27, 1845.

Mines.	Tons.	. Price.		e.	Mines.				Price.			
United Mines	.127		£3	9	0	Trethellan	. 92	****	4	3	0	
ditto	112		5	14	0	ditto	82		2	11	6	
ditto	103		5	19	0	ditto	79		5	7	0	
ditto	101		5.	11	0	Fowey Consola	. 84		2	15	0	
ditto	97		4	2	0	ditto	79		.5	2	0	
ditto	96		6	10	6	ditto	62		3	12	6	
ditto	86		2	17	6	Grambler &St. Aub	. 87		4	18	0	
ditto	84		4	11	6	ditto	43		4	16	0	
ditto	83		6	18	6	ditto	39		0	10	0	
ditto	81		5	4	6	Wh. Prudence	53		4	3	0	
ditto	80		6	2	6	ditto	51		3	3	0	
ditto	78		4	1	6	ditto	40		9	17	0	
ditto	77		4	6	6	Tresavean	71		4	8	0	
ditto	76		5	1	6	ditto	67		9	18	0	
ditto	69		4	4	0	Treleigh Consols	76		4	4	0	
South Caradon	92		5.1	3	6	ditto	44		6	19	6	
ditto	75		5	3	6	North Downs	75		5	18	0	
ditto	64		5 1	ī	6	ditto	27	****	6	19	0	
ditto	61		5	5	6	Creegbraws	36		4	17	6	
ditto	42		4 1	5	6	ditto	31		3	16	6	
Hallanbeagle	86		4 1	5	0	ditto	14		ă	5	o	
ditto	64		2 1	1	6	Penstruthal	30		6	0	0	
ditto	48		5	6	0	ditto	97		3	18	6	
ditto	40		6	1	6	ditto	22		19	0	6	
ditto	32		2 1	0	6	Continue and the same	774			7	1	153
	WY.		0.3		TAL	PRODUCE.				33	118	140
The state of the s		6 -	-			- HOLOUE			_			

8.....1350 .. £ 6719 19 6 on ...334 ... 1789 7 0270 ... 1151 10 0253 ... 1015 19 0 ls....225 ... 858 13 0 506 610 630 339 550

At SWANSEA, for sale March 5.—Chili 61—57—55—54—53—52—14—62—31—99. Santiago 105—100—95—81—72. Cobre 105—98—34—76—64. Bacuranao 90—56—48. Knockmahon 120. San Jose in Cobre 56—33—22. Ballymuragh 38—25—19. Vigra and Cloga 53—16—2. Carnarvon 38. Molland 12—10.—Total, 1956 tons. Copper ores for sale March 12.—Cobre 935—Bearhaven 416—Lackamore 56—Copiapo 38.—Total, 1445 tons.

LATEST CURRENT PRICES OF METALS.

LONDON, FEBRUARY 28, 1845

25 S. 25 S. G.	# A # A O.
SPELTER-On spot, p. ton 22 0-22 5 0	STEEL-Swedish faggot 0 0-18 0 0
For arrival 21 15-22 0 0	COPPER-Sheet & sheathing, p.lb. 0 0 91
	" Old 0 0 8
QUICKSILVER p. lb. 0 0 0 4 6	" Cakep. ton 0 0-84 0 0
LEON,* in London:-	Tile 0 0-83 0 0
" English bar, bolt, to o g to o	" Chili 0 0-71 0 0
and square, p.ton 0 0-9 10 0	Tin-English block 0 0- 3 15 0
	1.00
" Нооря 10 15—11 0 0	" Foreign, Banca 3 11— 3 12 0
,. Sheets, single 11 15-12 0 0	" Straights 0 0-3 8 0
o double 0 0-13 0 0	Peruvian., 1 7- 1 13 0
, treble 0 0-14 10 0	TIN PLATEST-IC p. box 1 8- 1 9 0
" Rails in Wales 9 5-9 10 0	IX 1 14— 1 15 0
D 4- W/-1 0 15 0 0 0	
THE M. I WE I. A SE . O O	
" Pig, No. 1, Welch 4 15— 5 0 0	" Liverpool 0 0-16 10 0
" No. 1, Clyde. 0 0- 5 0 0	" Spanish(London) 6 0-
" Foreign—Swedish 0 0-12 10 0	American 6 0-
CCND 0 0-15 10 0	,, (Liverpool) 0 0
PSI 0 0-16 0 0	" Sheet (London)., 17 15-18 0 0
Gourieff 0 0 1	Ded of to the co
" Archangel 0 0— —	" White 0 0-23 0 0 1
TEEL Swedish keg 17 10-18 0 0 1	, Patent shot 0 0-19 15 0
* Iron 5s. to 7s. 6d. per ton less at Liverpo.	ol. † 1s. per box less at Liverpool.
STOREY SUDJESSORS STORES AND AND ADDRESS.	THE RESERVE OF A PROPERTY AS NOT THE PARTY OF THE PARTY.

REMARKS.—Great activity still prevails in the iron market, and prices of all descriptions are rising. No Swedish metal has arrived, but the nominal price for arrival was high, and a further advance expected. The price of copper was stationary, but the demand limited. Tin had advanced 2s, per cwt., and the net cash in bond was very firm.

LEAD.—A great demand still prevails for this metal, nor does the confidence of hoppear to be affected by the provisions of the new tariff. A small parcel of Spanish ust arrived, has been sold for 16.5 s. in craft, and 20,000 pigs of British lead have burchased by the trade at 171. for common, and 191. per fodder for refined.

COAL MARKET, LONDON.

MONDAY.—Price of coals per ton at the close of the market:—Adair's Main 16—Ruddle's West Hartley 16 6—Carr's Hartley 16 6—Chester Main 16 6—Eden Tamfield 15 6—Holywell Main 17 and 17 6—Old Pentop 15 6—Ord's Redheugh 15—Ravensworth's West Hartley 16 6—Smith's Pontop 16 3—Tamfield Moor Bute's 66—Tamfield Moor 19 6—Townley 16—Twizell Main 15 6—West Hartley 17—West Wylam 16 6—Wall's End. Clark and Co. 16—Clennell 16—Hilds 17 6—Rawasy 15 6—Belmont 19—Braddyll's Hotton 20 3—East Hetton 17 3—Haswell 20 3—Houghall 18 6—Hetton 20 3—Hylkon 7 6—Lambton 20 and 20 3—Lumley 18 6—Shotton 20—Stewart's 20 3—Whitwell 18 6—Caradoc 20—Kellec 19—Leasingthorne 19—South Kellec 19—Seymour Tees 18 9—Brynamman 20—Morgan's Stone 21 9—Killingworth 17—Ships arrived, 46.

WEDNESDAY.—Baddle's West Hartley 16—Carr's Hartley 16—Chester Main 16 2—East Tamfield 15 6—Uld Pontop 15—Ord's Redheugh 18—Pott's Primoso 16—Exenseworth's West Hartley 16—Chester Main 18 6—Braddyll's Hetton 20 3—Hawell 20 3—Houghall 18—Hetton 20 and 20 3—Hytton 17 6—Lambton 19 and 20 3—Houghall 18—Hetton 20 and 20 3—Hytton 17 6—Lambton 19 9 and 20 3—Houghall 18—Hetton 20 and 20 3—Hytton 17 6—Lambton 19 9 and 20 3—Houghall 18—Hetton 20 and 19 3—Hytton 17 6—Lambton 19 9 and 20 3—Houghall 18—Hetton 20 and 19 3—Hytton 17 6—Lambton 19 9 and 20 3—Kluent's Tees 17—Woodefield 16 3—Cowpen Hartley 16—Gar's Hartley 16—Gowlender 16—Davison's West Hartley 16—Old Pontop 16 6—Chywell Main 18—Davison's West Hartley 18—Hasting 4 Hartley 16—Old Pontop 16 6—Old's Redheugh 15—Exen 27—Morgan's Stone 21 6—West Hartley 16—Old Pontop 16 6—Old's Redheugh 15—Exen 27—Ravasworth's West Hartley 16—Old Pontop 16 6—Old's Redheugh 15—Exen 27—Ravasworth's West Hartley 16—Old Pontop 16 6—Old's Redheugh 16—Exen 27—Ravasworth's West Hartley 16—Old Pontop 16 6—Old's Redheugh 16—Exen 27—Ravasworth's West Hartley 16—Old Pontop 16 6—Old's Redheugh 16—Exen 27—Ravasworth's West Hartley 16—Old Pontop 16 6—Old's Redheugh 16—Exen 27—Ravasworth's West Hartley 16—Old Pontop 16 6—Old's Redheugh 16—Exen 27—Ravasworth's W

FRIDAY.—Adair's Main 16—Carr's Hartley 16 6—Chester Main 16—Davison's West Hartley 17—Hastings' Hartley 16—Holywell Main 17—Morrison's Hartley 15—Selson's West Hartley 16—Old Pontop 15 6—Ord's Redheugh 15—Ravensworth's West Hartley 16—South Pelaw 15 6—Taylor's west Hartley 16—Fownley 15 6—Twynell Main 15 6—West Hartley 17—West Wylam 16 3—Wall's End Clennell 16—Heaton 17 6—Hilda 17—Killingworth 17—Whartleffs 17—Eeden Main 18 6—Braddyl'l's Hetton 20 3—Houghall 18—Hetton 20 3—Hylton 17 6—Lambton 19 9—Lumley 17 6—Pemberton 17 9—Stewart's 20—Caradoc 19 6—Hartlepool 20—High Thornley 17 6—Harve 16 3—Heagh Hall 18—Leasingthorne 18—Trimdon 19 6—West Hartlepool 16 9—Adelaide 19 6—Bitchburn 16 9—Brown's Deanery 18 3—Richardson's Tees 17—Symmour Tees 15 9—St. Helen's Tees 16 9—South Durham 18 6—Tees 19 3—West Hetton 16 9—Cowpen Hartley 16 6—Derwentwater Hartley 15 6—Hartley 16 —Lowis's Merthy 21—Morgan's Stone 21 6—Sidney's Hartley 16—West Hartley Netherton 16 6—Woodefield Coke 27.—Ships arrived, 106,

LONDON GAZETTE BANKRUPTS.

TUESDAY.—J. H. Dansday, Glasshous-street, Regent-street, tailor.—J. Brown, Signer-street, Snow-hill, perfumer.—L. Davis, Ewhurst, Sussex, wine agent.—W. H. Sama-High-street, Hoxton Old Town, greer.—C. Lee, Wakes Cohe, Essex, miller.—J. Gramanchester, upholsterer.—C. Murcott, Birmingham, factor.

FRIDAY.—J. Welch, Ring-cross, Hollowsy, Bicensed victualler.—J. and C. Green, E rongh-road, Southwark, corn dealers.—J. B. and R. Gordon, Poplar, coopers.—W. and Dees, and James Hogg, Newcastle-upon-Tyne, builders.—Mary and P. J. Rawkings, Chenham, cabinet makers.—J. Raiph, Bath, innkeeper.—J. Dalton, Salford, Lancashir cinser.—E. Bayley, Cheswardine, Shropabire, apothecary.

16 ... 10 ... 10 ... 13 ... 29 ... 150 ...

ă	PRICES OF M	INING SHARES.
7	BRITISH MINES.	BRITISH MINES continues
9	Shares. Company. Paid. Price	. Shares. Commany. Paid
3	235 Andrew and Boscawen 23 30 96 Bell 10	5000 Treleigh Consols 51.
9	4000 Bedford 91. 9	9600 Tamar Consols 8 .
ı	100 Botallack 175 500	6000 Tincroft 7
1	100 Botallack	4000 United Hills 5
1		100 United Mines1000.
1	120 Brewer	4000 United Hills
1	128 Cosheen 20 200	512 West Fowey Consols 40
I	114 Charlestown 300	384 Wheal Franco 20 128 Wheal St. Andrew 65 127 Wheal Virgin 128 West Caradon 40 129 Wheal Virgin 129 Wheal Virgin 129 Wheal Virgin 129 Wheal Virgin 140 1
1	128 Comfort	127 Wheal Virgin
1	2566 Cook's Kitchen — 15 1000 Carn Brea . 15 90 1000 Callington 16 24 256 Caradon Wh. Hooper 1	50 Wheal Vor
1	1000 Carn Brea 15 90	50 Wheal Vor
ı	1000 Callington 16 24	120 West Trethellan 5
I		128 Wheal Pose 20
Į	256 Caradon Copper Mine 1 4	256 West Wheal Tolgus · 6 · 1000 Wheal Harriet ·
ł	128 Caradon Consols 150 256 Caradon Copper Mine 1 4 128 Caradon Mines 1 50 256 Caradon United 1 12	256 West Wheal Tolgus 6 1000 Wheal Harriet 4 128 Wheal Penrose 128 Wheal Providence 16
ı		128 Wheal Providence 16
ı	128 Creeg Braws	os wheat Chfford
ľ	1000 Carn Perran 7	128 Wheal Albert 10 128 West Basset 10
ı	240 Craddock Moor 1 50	128 West Basset 10
ı	186 Dolcoath	128 Wheal Sisters 294
ı	1000 Dhurode 5 10000 Durham County Coal 45 74	99 Wheal Seaton 150
Į	128 East Pool 5 50	128 Wheal Acland 13 128 Wheal Sisters 294 99 Wheal Seaton 150 128 Wheal Henry 256 Wheal Hope 7
ı	128 East Pool	
ı	128 East Wheal Rose 501500	130 Wheal Trelawny 101
ı		200 Wheal Prudence 30
ı	100 Great Consols 1000 900	256 Wheal Norris 14 256 Wheal Treven 4
ı	1000 Godolphin	107 Wheal Trevilson 10
	100 Great Consols 1000 900 1000 Godolphin 35 35 256 Gonamena 1 100 1000 Hibernian 124 1 1000 Holmbush 14 38 38 38 38 38 38 38 3	
١.	1000 Holmbush 14 : 38	256 West Providence 18
ı.	128 Hallenbeagle 50	
h	1000 Hanson 5 5 5 800 Hawkmoor 1 2 160 Levant 150	128 Wheal St. Cleer 74
ı	160 Levant	128 Wheal Reeth 1
		128 West Carpoll
	1000 Lewis 3 6	256 Wheal Mary
	20000 Mining Co of Incland 7 191	256 Wheal Concord
ľ	2800 Marke Valley 10 5 70 North Roskear 530	209 West Wheal Treasury 3 128 Wheal St. Cleer 7 128 Wheal St. Cleer 7 128 Wheal Gill 17 128 West Cargoll 2 266 Wheal Mary 2 256 Wheal Concord 2 128 Wheal Venland 2 256 Wheal Wh. Friendship. —
	70 North Roskear 530	
	200 North Holmbush 15 100 North United 29 20 256 North Wheal Rose 19‡ 90	of facts advantage viscosop show wal
	256 North Wheal Rose 194. 90	FOREIGN MINES.
	256 North Treburget 1 5	5000 Alten Mining Company 14.
1	5000 Northern Coal Co 23 . 2	15000 Asturian Mining Co 5 10000 Anglo-Mexican Co 100
	128 Par Consols	3374 Ditto Subscription 25
	256 Penhallow Moon 15 or	3374 Ditto Subscription 25 2000 Bolanos 150 12000 Ditto Scrip 15 12000 Ditto Scrip
1	0000 Rhymney Iron, 50 21	10000 Brazilian Imperial 21
	800 South Towan 10 4	10000 Cata Branca (Bras.Co.) 64
b	0000 Rhymney Iron	12000 Cobre Copper Co 40
3	1000 Stray Park	5000 Ditto Serio
	128 South Wheal Basset — 290	10000 Copiapo Mining Co 14
	256 St. Austell Consols 4 13	20000 General Mining Ass'n. 20
	256 South Wheal Rose 2 5	12000 Mocaubas & Conses
	128 South Yeoland 8 9	10000 Brasilian Imperial 21
	120 Trethellan 5 93	Ditto unregistered 28#
	96 Tresavean 10 350	Ditto Red Debentures
	128 Tregardock 5 8	Ditto Loan Notes
į		7000 Royal Santiago 10
į	120 Treviskey and Barrier 61 240	7000 Royal Santiago 10 11000 St. John del Rey 15 14374 United Moriess
	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	48174 United Mexican 284 4
ĺ	RAILWAY SHARE LIST, A	ND TRAFFIC DOM
٠	Luth Present	TEATFIC RETURNS.

ETURNS.

Name of Railway.	Rway	tual cost.	share.	Share.	Div.	1845	Reta 18
Arbroath and Forfar	15	£140,782	25	15	24	£175	2
Birmingham and Gloucester		1,499,825	100	132 4	2	2790	16
Brandling Junction	23	471,217	50	54	71	2100	10
Bristol and Gloucester	374	501,177	30	064 74	34	Street,	100
Chester and Birkenhead	15	513,973	50	391	14	398	3
Dublin and Drogheda	315	500,865	60	79	-	569	04
Dublin and Kingstown	6	349,736	100	3374	6	610	54
Dundee and Arbroath	17	153,416	95	324	5	234	17
Durham and Sunderland	19	267,769	50	39	4	645	63
E. Counties & North. & East.	79	3,785,614	45	11473	5	3453	307
Edinburgh and Glasgow	46	1,649,114	50	63 5	44	2045	175
Glasgow, Paisley, and Ayr	40	1,050,962	50	66	44	1460	119
Glasgow, Paisley, & Greenock	23	787,844	25	16 15	-	654	68
Grand Junction	98	2,393,134	100	226	10	7176	635
Great North of England	45	1,262,518	100	188 92	31	1541	194
Great Western	118	7,279,539	80	175 7	7	19724	1061
Liverpool and Manchester	31	1,666,056	100	208	10	4232	342
London and Birmingham	113	6,393,468	100	232 34	10	14470	12656
London and Blackwall	100	1,315,640	164	74 4	- man	767	581
London and Brighton	51	2,630,451	50	604 1	- 98	2992	9944
London and Croydon	10	761,885	134	184 19	3	812	2966 196
London and Greenwich	4	1,038,336	124	104 11	-		636
London and South-Western	77	2,596,291	414	78 9	64	4405	4294
Manchester and Birmingham	31	1,923,699	40	65 7	5	8244	2763
Manchester & Leeds & Hull	82	3,486,783		138 40	10	6292	5354
Manchester, Bolton, & Bury	10	777,956	93	131	44	866	741
Midland	163	6,301,504	100	127 9	STEROID STATE	9014	7288
Newcastle and Carlisle	61	1,085,497	100	122	4	1567	1460
Newcastle and Darlington	224	405,727	24	52 3	-	1028	123
Newcartie and North Shields		309,629	50	70	6	372	275
North Union, Bolton & Preston	22	1,015,447	100	139	54	1287	1066
Preston and Wyre	23	432,014	50	224 3	-	377	222
Sheffield and Manchester South-Eastern and Dover	11	690,000	824	1064	-	653	484
	88	3,464,172	37	14 24	24	4010	2296
Taff Vale	22	590,006	100	110	2	940	584
Ulster	25	347,345	29	451	5	-	502
Yarmouth and Norwich	204	230,228	20	274		181	122
York and North Midlend	31	676,644	50	101 3	10	2214	1966
Paris and Orleans	-	2,000,000	20	47 1	4	3690	3535
Paris and Rougn		1 005 306	- 00	49 1	44	0000	

Name of Rallway. Price.	
Aberdeen Railway 24	North Kent
Belfast and Ballymena 31	Norwich and Brandon
Bristol and Exeter 82 4	North Wales Mineral
Caledonian 7	North Wales
Cambridge and Lincoln 23	Richmond and West End Junction
Churnet Valley 71	South Wales 4
Churnet Valley	South Devon
Cornwall 31 4	Scottish Central
Duffryn Llynvi and Porth Cawl 100	Sheffield and Lincolnabire
Direct Northern to York 2 11	Shrewsbury and Grand Junction i
Dublin and Belfast 52	Shrewsbury, Wolverhampton, &c 4
Dublin and Cashel 124	Scarborough33
Dundee and Perth 31	Trent Valley 20
Ely and Bedford	West Cornwall,
Glasgow, Dumfries, and Carlisle	West Yorkshire
Gt. Southern & Western (Ireland) 12 114	Yarmouth and Norwich
Great Grimsby and Sheffield 25	Boulogne and Amiens 4
Harwich and Eastern Counties June.	Central of France 12
Kendal and Windermere	Lyons and Avignon 1
Portsmouth Direct	Orleans, Tours, and Bordeanx 5
onden and York 7	Paris and Lyons
ynn and Ely 5	Paris and Strasburg
ancaster and Carlisle 30 2	Rouen and Havre 29
Kewcastle and Berwick	Sambre and Meuse 2
North British	Strasburg and Basle b

THAMES TUNNEL COMPANY.

The number of passengers who passed through the Tunnel in the week ending F was 24,121; amount of money, 100%. 10s. 1d. (fast year, 84% 7s. 5d.).

Dry Bill, et 3 Little Ball, Ball, up Willy Life on Beautiful Space	THE STATE OF THE PARTY OF THE P
Shares. Company, Paid. Price	. Shares. Company. Paid. Prid.
10,000 Anglo-Mexican Mint £10 17	5,000 London Cemetery 20 18
10,000 Anti Dry-Rot 184 2	8,000 London Rever.Int.Soc. 20 17
10,000 Asphalte (Claridge) 4 1	10,000 London Wood Paving. 2 . 2
10,000 Assam Tea Company 20 41	15,000 Met.Pat. Wood Paving 6 6
10,000 Austral. Agricultural 30 25	20,000 Mexican & S.American 7 4
5,709 Australian Trust Co 35 33	20,000 New Brunswick Land. 75
2,200 Bitumen Bastenne 54 54	6,092 Peninsular & Oriental, 50
10,000 Ditto Polonceau 2	10,000 Patent Elastic Payt 1 I
6,000 Brit. Amer. Land Co., 354 12	5,387 Rever. Interest Society 100 101
4,000 Brit. Loan & Dis. Inst. 24. 24	15 000 Powel Med Star Pro CO
8,600 Brit. Rock & Pat. Salt 35 12	15,000 Royal Mail Steam Pkt. 60 37
5,000 Droitwich Patent Salt. 25 14	13,572 St. Katharine Dock . 120117
2,700 Rquitable Rever. Soc 80 85	2,000 Shott's Iron Foundry., 48 3
20,000 General Steam Navig 14 294	14,000 South Australian 20 16
5,000 Gen. Rever. Int. Soc 100 104	7,000 Southampton Dock Co. 50 3
2,100 Hungerford Market 100 554	3,000 Ship Owners' Towing. 74 15
1 900 I code Com Parket 100 554	14,000 Thames Tunnel 50 4
1,800 London Corn Exch 374 25	10,000 Van Dieman's Land 20 4
7000 shares of 507 since	10,000 Van Dieman's Land 20

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No. 497.7

ENLARGED SHEET.

MARCH 1.

Proceedings of Public Companies.

BRITISH IRON COMPANY.

On Thursday, a special general meeting of this company was held at offices in New Broad-street, City. Sir George Larpent, Bart., ook the chair. The usual notice to the proprietors was read to the ting, stating the object to be the appointment of a committee for settg the debts now due to the company. The CHAIRMAN read the followreport of the directors.

ng report of the directors.

REPORT.

The directors have thought it right to convene the proprietors on the pres enteres hiefly for the purpose of appointing a committee, with power to compromise debts due to the company. The directors have the satisfaction of stating, that the measures adopted we obtaining payment of the arrears of calls, have been fully as effectual as could have seen anticipated, since the passing of the company's Act of last session.

The arrears on calls made previously to the 4th of July last, the date of the passing of the Act, amounted to.

\$218.291

Which arrears there have since been recovered the sum of.

24,582

competition from insolverin defailers, may be safely and satisfactorily put in force; and hey, therefore, propose, as the business of the day, the appointment of a committee, to estential by the proprieters, to determine the amounts to be accepted from parties who re unable to meet their debts in fail.

The Chairman moved that the report be received and approved.

Mr. Harrison seconded it, and it was adopted accordingly. The Chairman was at a committee be appointed for the purpose bove-named. A Proprietor hoped no one would be let off who was nabled to settle his engagements.

The Chairman said that would not be the case. They had the best ecurity in having gentlemen in the direction and on the committee, who were the largest proprietors. They would not let off any person who could not ought to pay his engagements. Independently of their duty, there was the best possible safeguard for their conduct in their own great personal interest. He, therefore, hoped the proprietors would give their condence to this committee, who were to perform the last act in that unformate drama, in which they had all, more or less suffered. Mr. Mc LAURIN could not see how that committee could perform their duties sasfactorily to the proprietors, unless they appointed one of the committee on make a special report of every one's case, who stood indebted to the commany. Mr. WILSON said it would be the duty of the committee to enquire nto every one's case (hear, hear). Mr. Mc LAURIN: It is not likely the committee will do that. The Chairman said they so could follow the mode prescribed by the Act of Parliament. The question was entirely one of onfidence in the committee to be appointed?

The Chairman said eighteen. Mr. Mc LAURIN persisted in saying hat a special report of each case ought to be made, which the committee ould not do collectively. The Chairman said the committee had been mown to them for many years (hear, hear). The question was whether hey would give them their confidence or not, which could only be decided by the majority

onde must be left to their discretion.

Mr. Hichens had no doubt the committee would take care of their own ockets, as well as those of the proprietors. All he hoped was, that those entlemen, would manage the business as delicately as possible, and act ith as great leniency as they could towards those unfortunate persons howere unable to pay in full; and for the additional 3L per share, to give it the accommodation they could, consistently with their duty to the hole company, as to time or security.—A Proprieton thought a larger coportion than three ought to be the quorum.—Mr. S. Ricando said, the entlemen of the committee had found it a very disagreable task, and ould be happy, if they could do it consistently, to retire altogether.

The Chairman said, their best plan was to go as near their act of Parment as possible, and it defined that the committee should consist of the members at least. He quite agreed with Mr. Hichens, that every licacy and feeling should be exercised; he had always entertained that sinion, and he thought in that respect, the past was the best warrant for a Paragraphy of the past was the best warrant for a proprietor asked what interest they had raid as the 100,000 2 and a proprietor asked what interest they had raid as the 100,000 2 and a proprietor asked what interest they had raid as the 100,000 2 and a proprietor asked what interest they had raid as the 100,000 2 and a proprietor asked when interest they had raid as the 100,000 2 and a proprietor asked when interest they had raid as the 100,000 2 and a proprietor asked when interest they had raid as the 100,000 2 and 100 and

A PROPRIETOR asked what interest they had paid on the 100,000l.?-the CHAIRMAN said 4 per cent., and that the rates were for various period A PROPRIETOR asked what interest they had paid on the 100,000.?—
he CHAIRMAN said 4 per cent., and that the rates were for various periods.
A PROPRIETOR wished to know what amount was owing at the present oment?—The CHAIRMAN said 103,0006, besides all contingent expenses.
Mr. M'LAURIN not having moved any amendment,—the CHAIRMAN subnitted the following resolution: "That in pursuance of the company's ct, 7 and 8 Vict., sess. 1844, sect. 4, Sir George Larpent, Bart., J. H. almer, Esq., W. Crawford, Esq., M. H. Grenge, Larpent, Bart., J. H. almer, Esq., W. Crawford, Esq., M. P., D. B. Chapman, sq., G. P. Barclay, Esq., J. S. Brownrigg, Esq., M.P., D. B. Chapman, sq., Samuel Hoare, Esq., Charles Kerr, Esq., Samson Ricardo, Esq., J. bel Smith, Esq., M.P., W. A. Wilkinson, Esq., J. S. Smith, Esq., Benamin Harding, Esq., Capt. George Probyn, W. Parker, Esq., and Thomas Prane, Esq., proprietors of the company, be appointed a committee for he purpose of settling, compromising, compounding, and releasing, at heir discretion, all debts due to the company, for calls or otherwise, and II claims and demands of the company, on any person or persons, and uch committee are hereby invested with all and every the powers and uthorities, by the said Act given and authorised to be given, to any committee in pursuance thereof."—The resolution was passed unanimously.

Dr. Bowring, M.P., said, that no chairman ever merited the confidence and heartfelt thanks of a company than Sir G. Larpent, for his conduct on hat and on all other occasions, he would, therefore, move a vote of thanks to their worthy chairman. (Hear, hear).—Mr. Highens seconded the motion, which was passed unanimously.—The Chairman returned thanks, when the meeting adjoinned.

WINITED MEXICAN MINING ASSOCIATION.

This company held a special meeting on Thursday last, to consider the expediency of giving Mr. Shoolbred powers to adopt such decisive measures, as should raise the prospects of the association, and ultimately lead to more favourable results than had hitherto followed their undertaking. Sir John Easthope, Bart., M.P., in the chair.

The CHAIRMAN having called on the secretary to read the minutes of the last meeting observed that, before proceeding further, he would read the

Siz,—The Earl of Aberdeen having had under his consideration the statement cantained in your letter of the 21st of August last, together with the information subsequently furnished by Mr. Shoolbred, respecting the complaint of the United Mexican Mining Association against the tribunals of the Mexican Republic, I am directed to acquaint you, that it appears to his Lordship that the association have now given sufficient evidence of the justice of their complaint, to warrant the interference of her Majesty's Government in their behalf, and that her Majesty's Minister at Mexico with accordingly be instructed to demand compensation from the Government of Mexico for the injury which the Mexican Mining Association has suffered by the acts of the Mexican tribunals.

Sit J. Easthope, Bart, M.P.

The geograph was a first of the Mexican and the Mexican Mining Association has suffered by the acts of the Mexican tribunals.

The general purpose for which the directors had called the proprietors

ogether, was to ascertain their opinion respecting certain steps submitted to the directors for giving permanence and solidity to the affairs of the association, the measures in themselves were of vast importance, and on their advisability the directors would unhesitatingly pronounce their own conviction, but before the shareholders committed themselves to the extent viction, but before the shareholders committed themselves to the extent which the propositions would involve them, they might naturally inquire what were the funds and the present prospects of the company. The number of shares, created at various times by the different loans and debentures, were 28,272 shares, created at 40l. per share, making 1,130,880l.; 664 at 15l., making 9960l.; 303 at 14l., making 4242l.; 4978 in scrip. at 12l., making 6962l.; and 8957 at 5l., making a total of 43,174 shares, for which an average price of 28l. 2s. 8d., and a gross amount of 1,214,774l. had been paid by the company. The property of the association in the states of Mexico, agreeably to the last advices as valued by the company's agents, was as follows:—

8 93,457 1 7

Stores		6	i
in all less, the fair story shifts at the review	\$236,183	7	8
Cash advanced on hacienda contracts	\$130,000	0	
Improvements in the hacienda of Duran	12,000	0	0
The claims for Treasury orders agains Arista indemnity Claims on the Mexican Government, arising out of the San Acacio law-		0	6
suit, exclusive of interest		6	4
The Rayas debt		1	2
Available assets at Guanaxuato	74,432		7
Settled and I recorded and the Administration of the last	\$1,458,520	0	- 5
Or	£255,241	0	
Assets at homeQuicksilver Mexico, and on the road thence			0
Total	£272,004	10	2

The directors had, after giving these various items, intimately connected as they were with the prospects and future success of the association, their most anxious surveillance and examination, been the better prepared for the consideration of the vast and important recommendations of Mr. Shoolbred, on which were based the revival of the company and the subjects of discussion for the present meeting, the magnitude of which would at once be manifest. In their deliberation upon it, the directors had applied their minds with the greatest possible care preparabeting the unfortunate mistakes. discussion for the present meeting, the magnitude of which would at once be manifest. In their deliberation upon it, the directors had applied their minds with the greatest possible care; remembering the unfortunate mistakes which the association first in its early formation committed, and keeping in recollection the risks to which this company in particular was liable, and the risks which all mining concerns collectively were subject. But whilst bearing in mind these deterring circumstances, they had eventually come to the conviction that it would be unwise to disregard those advantages which experience had so dearly and painfully given them. They had therefore determined in recommending the proprietors to adopt the views of Mr. Shoolbred, and empower him to carry out his suggestions. The directors felt that if the case had been their own they should not hesitate, but as it materially concerned the interests of every individual shareholder, they resolved to consult that body before they gave their final sanction to the proposition. The instructions they proposed to give Mr. Shoolbred were, that he should be at liberty to apply the entire funds arising from the Zacadecas compensation and treasury orders on hand, and meanwhile take in anticipation the sum of 5000l out of the present assets of the company in Mexico, for the accomplishment of any extended operations he may deem advisable, believing as they did that that course, would ensure them a good, bona fide, mercantile chance of giving character and permanence to the existence of the company. (Cheers).

After a slight discussion, in which Mr. Moore stremously opposed all further investment of funds in the speculation, a resolution, embodying the substance of the directors recommendation, and giving Mr. Shoolbred fall powers and instructions, to further and complete his propositions, was passed, only two proprietors dissenting.—A vote of thanks was given the board of direction, and the meeting separated.

Mr. Shoolbred leaves for Moxico on Saturday next, and

BEDFORD UNITED MINING COMPANY.

The annual general meeting of this company was held at the offices, 51, Old Broad-street, on Thursday, the 27th ult.

J. J. VANHILLER, Esq., in the chair.

The advertisement [convening the meeting having been read, the following report of the directors was laid before the proprietors:—

lowing report of the directors was laid before the proprietors:—

The directors of the Bedford United Mining Company, at the present annual general meeting, present to their co-proprietors a statement of the accounts of the past year, made up to 31st December last, which has been examined and signed by the auditors. From this account it will be seen, that, while the raisings for the year 1842 were 175 tons 16 cwts. 3 grs. amounting to 7864. 16s. 3d., and for 1843 were 189 tons 17 cwts. 3 grs., amounting to 9444. 1s. 10d.—covering one-third of each year's cost—chose for the year 1844 have been 938 tons 2 grs. amounting to 6204. 7s. 11d.; and, at the same time, the directors would observe, that, while the loss on the two first months of the past year was 1964. 4s. 9d., and on the first six months 1304. 4s. 10d., the profit on the last two months of the year was 6244. 7s.—chus showing a steady increase of improvement in the company's operations. The accounts now presented shows a balance in favour of the company to the 31st December of 11554. 9s. 2d. The directors have the satisfaction to state, that the mine is free from all liabilities, and the whole of the monthly expenditure being charged in the monthly cost, the profit now making will be available for division, as soon as it shall be considered desirable to commence paying dividends. On the subject of the state and prospects of the mine, the directors would refer, in addition to the weekly reports, at all times open to the shareholders, to that of the manager (Mr. J. H. Hitchins), and, while they considered the present state of the mine, as compared with the corresponding period of last year, every way satisfactory, they look forward to reaching several points of considered the present state of the mine, as compared with the corresponding period of last year, every way satisfactory, they look forward to reaching several points of considerable promise, the operations towards which are now steadily progressing, as a period of last year, every way satisfactory, they look forward to reaching several points of considerable promise, the operations towards which are now steadily progressing, as a period holding out prospect of increased returns and profit. The directors retiring in accordance with the regulations of the company are Mr. G. W. Harrison and Mr. W. A. Thomas, and the auditor Mr. R. H. Pike-all of whom offer themselves for re-election. In conclusion, the directors would congratulate their co-proprietors on the improvement of the mine during the past year, and the prospect of success that the adventure holds out to those embarked in it.

The extension of the accounts for the past year way road as wall as the

The statement of the accounts for the past year was read, as well as the

The statement of the accounts for the past year was read, as well as the reports of the state and prospects of the mine.

In reply to an inquiry from a shareholder, Mr. G. W. Harrison stated, that the engine-shaft on the Marquis lode was sunk to the seventy fathom level, and the cross-cut driven within a few fathoms—probably, two or three—of cutting the lode, and that having had ore ground in all the levels, from the twenty-five to the fifty-eight fathom levels, they might reasonably expect it at the seventy; the ore ground already laid open, irrespective of what may be discovered by cutting this seventy fathom level, is about 12,000L, as will be seen by the report of Mr. Hitchins. A few months would connect the forty-seven and the deep adit, leaving a dry mine above.—In answer to a proprietor, Mr. Harrisos stated, that at Wheal Tavistock the shaft was down about twenty fathoms—that the lode for the whole course had been every way similar to the Marquis lode, at

a similar depth of a most favourable description—and that ore was first met with thereon at twenty-two fathoms deep, and that shortly a discovery there might be looked for.—A Propriieron: Are those the only shafts sinking?—Mr. Harrison: The engine-shaft, at Ding Dong, is down about five fathoms under the twelve fathom level, or about fifty-nine from surface; some good work had been met with at the twelve fathom level, apparently the top of a bunch, which it would be desirable to see at the next level; the shaft was being sunk with all dispatch. Some preliminary work was also doing on Delves Kitchen lode. Improvement might reasonably be expected at all these points of operation.—Resolutions were passed for the reception of the report and accounts, and for the re-election of the directors and auditors retiring; and a vote of thanks having been passed to the directors and the chairman, the meeting separated.

A special meeting of this company was held on Paesday, the Six ul., at their offices in Old Broad-street, EDMUND TENERS, Easy, M.P., in the chair.

After a short prelininary discussion as to the admission of the public press, the press. The company of the public press, the press. The press. The press. The public press, the public press, and the publi

plishing the same, they be authorised to withdraw the present opposition to their (the Cornwall) line; and that the secretary do not appear to support the petition lodged by him against the Cornwall line of railway, and that notice in writing be given by the deputation to Mesers. Dorrington and Co, the Parliamentary agents, of much determination."—This resolution was eventually carried, after an indignant protest by Mr. Harvey (the secretary) and Mr. Tilly (the solicitor of the company), both of whom immediately tendered their resignation, and expressed their determination, the one to appear to the petition, and the other to oppose the Southern line.—Mr. Harvey, at the instance of Mr. Tilly, agreed to withdraw his determination; at the same time, he very truly and judiciously observed that the resolutions just passed were in direct contradiction to the report which had been adopted, and the meeting had, therefore, completely stultified itself. The deputation having retired to adopt the necessary steps for endeavouring to secure the 1750 shares, the shareholders separated, but not before a very decided opinion was expressed that a negociation for the granting the above number of shares and bevon Central Railway.

The sublicing letters will be a the consult and Devon Central Railway.

EDMUND TURNER

BRISTOL AND EXETER RAILWAY.

At the half-yearly general meeting of this company, held at the White Lion otel, Bristel, on Thursday, the 27th uit, Frencherick Ricketts, Eq., in the air, after the assul preliminary business had been transacted, the Secheraky H. Badham, Eq.), read the report, which showed a very satisfactory increase the traffic during the last half-year; the rent and share of tell due by the many to the Great Western Bailway for the half-year suded Dec. 13, is—"Fixed-rent of line from the 14th June to the 13th Dec., at 71,3671.

Barre of toll on 215,899 passengers, conveyed 7,372,066 miles, at 4d per mile. 27679 4 8 (Goods and coal, 32,992 tons 9 cwt. 3 cps. 13 lbs., conveyed 1,375,395 miles, at 4d. per mile . 1433 5 4 9,112 10 0

terests of this company is removed; and, should it hereafter be found necessary, in order to meet the requirements of the public, to construct any additional line in that district, it is understood that it shall be undertaken by this company in conjunction with the Great Western.

The Oranman, after congratulating the proprietors on the increasing property of their line, and the fair prospects it held out of success for the future, proposed the adoption of the report, which, being seconded by Mr. Gruns, was carried unanimously.—On the motion of a dividend, of 12 bs. per share being paid, the proprietors, a shareholder, having enquired if the amount of money received from the Great Western Railway Company, would cover the current expenses during the last half year?

Mr. Furre said, it might be reasonable to suppose that the whole of the expenses of the establishment ought to be charged on the revenue account; but, for the last half year, the directors had to deal with the fund for the construction of the line; and as this was the first meeting since the entire road was opened, and as the accounts were not yet closed, it was out of the power of the board to analyse the capital and the revenue accounts, so as to give a distinct statement of how each stood. As to the proportion which the dividend now proposed, bore to the amount received from the Great Western Railway Company, the could assure the proprietors that, being enabled to recommend such a dividend, was, to the directors, a matter of the highest satisfaction; and he trasted that it was also gratifying to all the other parties concerned. The Great Western Company had assigned to this company 9,0595. to which sum might be added a further one of 4004, for which they were responsible, it having the examples of the working of other railways to guide them, he was convinced that his border proprietors would see that the directors were perfectly justified in recommending the payment of the proposed dividend. There was he might observe, a question between the Great

chairman, and also to the auditors, after which the meeting adjustmed.

NORTH WALES MINERAL RAILWAY.

The half-yearly meeting of this company was held on Friday, 28th ult., at the office in Moorgate-street, City. W. R. Colleger, M.P., having taken the chair, the SEGRETARY (Mr. G. King) read the notice convening the meeting, and the minutes of the last general and apecial, general meetings, which were confirmed. The seal was affixed to the registry.—The SEGRETARY read the report, which stated that since the ordinary meeting of proprietors on the 20th August last, a special meeting had been held to consider a recommendation of the discovery of the control of the conveyance of the mineral traffic of the district to Sunder-standing that, upon Parliamentary assertion being obtained, the two stocks should be amalgamated. At a more process period of this company, with the understanding that, upon Parliament company, with the understanding that, upon Parliament company, viz.: from the terminus of the said extension at Rushon, by way of Oswestry to Shrewsbury, connecting at the latter town with the proposed line to Birmingham, and thus rendering the railway a portion of one great line of communication between the North and South of England, and Wales in addition, therefore, to the large mineral and local passenger traffic, which of themselves promise a liberal return on the capital, therefore may be expected a vast accession thereto from the sources aftersity stated. To form a proper provision for this company, and the provision of the discovered of a double line for way, consideration of the directors, and although they are out at present prepared to advise that the works and although they are out at present prepared to advise that the works and although they are out at present prepared to advise that the works and although they are out at present prepared to advise that the works and although they are out at present prepared to advise that the works of the company of the manner of the distriction of the lands (the

ing the land already referred to, has caused some delaying their operations but the directors are still in hopes that the line will be opened for traffic in the ensuing autumn. The rails for the permanent way have been contracted for at a triffing excess above the ungineer's estimate, and considerably below the present price. The directors have great pleasure in referring to the half-yearly report of the Chester and Holyhead Railway Company atating their intention to proceed as rapidly as possible with the portion of their line which connects that of this company with Chester. In anticipation of the opening of the line in autumn, the directors have contracted for four locomotive angines and tenders, to be on the line in working order by that time; and the directors are now turning their attention to the providing a necessary supply of carriages and waggons. A statement of the receipts and disbursements to the 22d of the present month accompanies the report. The payment of the remaining land purchases, and the active state of the several contracts, will absorb the halance during the ensuing month, and render another call of 2l, per ahare necessary in April next.

The Ciratheaux, after moving the adoption of the report, congratulation of the contracts will absorb the

land purchases and the active state of the several contracts, will absorb the halance during the ensuing month, and render another call of 2l. per ahare necessary in April next.

The Gramarax, after moving the adoption of the report, congratulated the meeting en the manner in which the contracts had been let, and the prospect of a speedy completion of the line between Chester and Wrexham. They had made a contract for iron much below the present charge, and, he was happy to say, the contractor was a gentleman of known respectability. Some little difference of opinion had existed on the subject of the extension, noticed at the last special general meeting, in consequence of the further extension of the Cowestry and Shrewsbury line. He begged it to be understood, that he considered the Oswestry and Shrewsbury line, quite independent of the North Wales Mineral Railway, except as far as it would bring a portion of additional traffic to the line. It had been runsoured, that this company was to be taken up by the North Wales Mineral Company, which was not the case; he did no say this with with any feeling of hostility; but meant it to be understood, that they were clearly independent of that company. They had been permitted to go as fir as Ruabon, and to raise the capital required; further that this point the board did not intend to carry on the line. The further extension, he was happy to say, was contemplated by the Oswestry and Shrewsbury Company, and would be a source of great advantage to the North Wales Mineral Railway. His opinion was, it would not pay for them to go beyond Ruabon, except by making branches to the several collieries and irro works. He hoped the propietors would look upon a great company, like the Chester and Holyhead, as their natural friends, as well as the Chester and Birkenhead Company, with the whole of which no other company had any just right to interfere. In concenclusion, he begged to move the adoption of the report.—Adam Duff, Esq., seconded the motion, which was passed manimously.

A

CHESTER AND HOLYHEAD RAILWAY.

The half-yearly general meeting of this company was held at the office, in Moorgate-street, on Wednesday, the 26th ult., at which the chair was taken by W. R. COLLETT, ESG, M.P.—The SEGRETARY (Mr. G. King) read the notice, and the minutes of the former meeting, which were confirmed, and the seal of the se

The half-yearly general meeting of this company was nett at the office, in Moorgate-street, on Wednesday, the 26th tilt, at which the chair was taken by W. R. Collett, Ed., M.P.—The Skorstrany (Mr. G. King) read the noise affixed to the registry of proprietors.

The Chairman made a speech of considerable length, distinct from the report, in which he denied that they had asked the Government for 80,0002.—40,0004, with a sliding scale, was their demand. The Government gave them 30,0004 for five years, and another 30,0004 for seven years, with a contingency of carrying the mails a distance of eighty-five miles. It was said that the bridge over the Menai Straits would cost 500,0004, and take five years; he was happy to say three years and a half, and 250,0004 was the esimate. Two contracts had been let considerably under the estimate, and he thought they might judge from this that the total estimate would not be exceeded. To the present time, a purchased the Chester and Birkenhead Railway, the directors would not complete their agreement. As he saw some of these gentlemen in the room, he trusted they would contradict such a report. He had taken great interest in the railways in the south of Ireland, with a view to bring all the traffic to Dublin, and so over to Holyhead. In conclusion, he congratultated the shares holders on the prospect of Government making Holyhead a harbour of refuge, and of their granting, in the present year, a sum of money for its improvement as a packet station—Mr. Jacksons (the chairman of the Chester and Birkenhead Railway), said the directors were most unanimous in their wish to carry into effect the agreement made with this company.

The Scauterant then read the report of the directors, the substance was the following:—Captain Moorson had undertaken the duises of resident director. The amended line approaching the Menai Straits would give no annoyance to the Bishop of Bangor, and a bill to make it was now before Parliament, which was expected to pass without opposition. The plan of the b

L DURHAM AND SUNDERLAND RAILWAY COMPANY.

J. J. Whight, Esq. (the selicitor of the company), in confirmation of the honourable intentions of the company, as asserted by Mr. Bramwell, mentioned the following startling, if not disregatable, instances of extortion practiced by some of the landowners. The number of persons who possessed property through which the line passed was twenty-one, to twelve of these the company had been compelled to pay a way-leave rent of 30L per acre per annum; to four at the rate of 100L per acre per annum; three at 200L; one at \$137L; and they had actually been compelled to pay another at the rate of 1280L per acre per annum! Now, against such extortion the company did.protest, and while they would give every man not-only a fair but a liberal compensation for his property, they insisted that terms like those were preposterous, and even ruineus. Their only remedy therefore, was to apply for powers to purchase the fee-simp of the lands, and this, he considered, the meeting would see the more necessary, when he again referred to the document, from which he had taken the above astounding items. He then found that during the eight years and a half which the railway had been established, they had paid to the landowners, on the average, cent at the rate of 100L per annum, and altogether, during the same period, they had paid to seventeen out of the twenty-one, upwards of 200L in the whole per acre; five 1000L per acre; two 3000L; and one of them the concromous sum of 9270L per acre—in every case more than twenty or thirty times the value of the land.—Resolutions were then passed, for pertitioning Parliament in favour of the bill and the undertaking, when the meeting separated.

the value of the land.—Resolutions were then passed, for petitioning Parliament in favour of the bill and the undertaking, when the meeting separated.

FURNESS RAILWAY.

The half-yearly general meeting of the shareholders was held at Old Palaceyard, Westminster, on Wednesday, the 26th ult., at which the whole of the directors were present, and Mr. Benjamin Curney (the chairman) presided. Among the shareholders who were present by proxy were his Gracethe Duke of Buccleuch, and the Right Hon. the Earl of Burlington.—The register book of shareholders was produced to the meeting, and to which the common seal of the company was ordered to be affixed.—The shareholders present nominated his Grace the Duke of Buccleuch as the person to appoint an auditor to the company.—The balance-sheet of the accounts for the period between the passing of the Act, and the 10th ult., was produced to the meeting, which showed the amount of receipts to be 16,600L, and of disbursements 4115L. St. 5d.—giving a balance in hand of 11,484L 11s. 7d.

The SECRIFTARY then read the report of the directors, which stated that the principal object of the railway was to connect the iron mines in the neighbourhood of Dalton and the slate quarries at Kirkby Ireleth with the coast, at the two points best adapted for shipping—viz., Barrow and Rampside. The directors had at first intended the line to be single, estimating the cost at 75,000L (in addition to the loan of 25,000L), but they had subsequently considered it advisable to secure land for a double line, and to lay a double rail through the tunnels and other parts of the line; the 'additional cost of this, including the erection of a pier at Barrow, for the benefit and convenience of the iron ore and slate traffic, would be 15,000L. The probable traffic on the line derived from the mineral district it traverses, amply justified its adoption, especially as past experience warranted this belief; the export from Furness of iron ore in the last year having amounted to nearly 100,000 tons, and the

TAFF VALE RAILWAY.

TAFF VALE RAILWAY.

The half-yearly meeting of the proprietors of this company took place at Bristol, on Friday, the 21st alt.—The Chamman (Sir J. J. Guest) announced that advantageous arrangements had been entered into with the Marquis of Bute in reference to the charge of wharfage and dockage, which had been fixed at a low rate; a bill, however, was necessary to confirm the agreement, which would be prepared and submitted to the proprietory in a few weeks. A great increase of traffic was observable in the last half-year, and well-founded anticipations of its being augmented by the formation of the Aberdare Valley line. The directors had increased the number of coal waggons to accommodate the proprietors of small collieries, and had ordered four additional engines, while they also contemplated the construction of a double line, and had actually determined on forming one as far as Navigation House.—By the report, it appeared that the increase in traffic on this over the last half-year was 42784, and over the corresponding period in 1845 6000. The amount of passenger fares also presented a satisfactory advance. On comparing the traffic on this line for the years 1843 and 1844, it appears that the sum paid for the trassit of firon for the six months ending June, 1843, was 27122. 18a. 5d.; colling Becember, 1843, 25284. 14a. 8d.; June, 1844, 48244. 9a. 10d.; and December, 1844, 2571. 6a. Coal and coke had similarly paid up to June, 1843, 5102. 8a. 4d.; December, 1843, 1862. 18a. 2d.; June, 1844, 67861. 2a. dd.; and December, 1844, 49144. 2a. id. A dividend was recommended of 11. 17a. 7d. per share of 1251. 4a. 6d. for the half-year, being at the rate of 3 per ceft, per annum.—The report was unanimously adopted in every particular, and the meeting separated.

ing separated.

GLASGOW, PAISLEY, KILMARNOCK, AND AYR RAILWAY. At the sixteenth half-yearly-meeting of this company (James Mcaul, Esq., of Daldowie, in the chair), the report of the directors of the past half-year, which was read and approyed of, exhibited a continuing increase in the traffic upon the line, and recommended a dividend of 25s, per share on the original stock, being at the rate of 4 per cent, and made payable on the 15th of March next, free of any deduction for income tax. The decision of the Board of Trade, recommending the Caledonian line of railway, and reporting against the Dumfries and Carhele line, was alluded to, but any steps in the matter were delayed till the intention of the directors of that line be ascertained, when a special meeting is to be called for the purpose of considering what further measures may be taken in reference to this and other projected lines in which the company are interested. The report stated that a first class iron steamer is to be employed on the Belfast station, along with the Glove-worm, early in the season. The Labella Napice steamer is also to ply to Londonderry.—On the motion of Lord Bellanton, the thanks of the meeting were voted to the chairman, and the meeting broke up.

BRIGHTON, LEWES, AND HASTINGS RAILWAY.

BRIGHTON, LEWES, AND HASTINGS RAILWAY.

BRIGHTON, LEWES, AND HASTINGS RAILWAY.

A meeting of the proprietors of this company was held at the London-bridge station, on Monday, the 24th alt, WILLAM MASH, Esq., in the chair.—The half-yearly report, which merely had reference to the progress of the various works of the company, was, on the whole, satisfactory.—A slight discussion arose on its adoption being proposed, by a question put to the directors by Mr. TROUP, respecting the cost of the undertaking, as he suspected they had not selected the cheapest mode of proceeding, having neglected to offer the contract to competition, whereby they had incurred an unnecessary expense of 100,000. more than was necessary. He begged, therefore, to ask the engineer what would be the quantity of material, &c., requisite for the undertaking?—Mr. RASTRICK refused to give any such information, as he considered that no proprietor, ignorant as he must be of all such constructions, had any right to put such impertinent questions.—Mr. D. W. HARVEY was surprised to hear such a doctrine as that laid down by a hired collect of the company—because, forseoth, a shareholder was ignorant of the masonry of engineering, he should be kept in ignorance of the probable cost of an undertaking which would affect his interests most materially. He considered that the conduct of Mr. Rastrick was, to say the least of it, uncourteous and unbecoming; and he begged to repeat the question to Mr. Rastrick—what would be the probable cost of the whole works when completed?—Mr. Rowland Hill defended the conduct of their engineer, as there was a reason for treating Mr. Troup so cavallierly, and, though the board of directors were willing to give every information in their power, he, for one, must decline having any communication, either by letter or discussion, with that gentleman, who had though fit to write most insulting letters, impugning the proceedings of the directors, and calling them guilty participators in a scheme with Mr. Wyse. However, for the information of Mr. Harvey and others, who, i

EASTERN COAST OF CENTRAL AMERICA COMMERCIAL AND AGRICULTURAL COMPANY.

A general meeting of the creditors by debenture of this company was held at the London Tavern, on Tuesday, the 25th ult., "to receive the report of the committee appointed at their meeting held on Thursday, the 6th July, and of the trustees under the grant, and to consider and determine what steps ought

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holders director the 31st day, from and the add, that office to are re-el Joshua (Col. too len improve direct p their fa Mr.

they we They he 1500L a truth of double a could al the esta W. O. P. Stapl Mr. V

mertang rectors t much pr to go on A rese arrears, mited, the Mr. W to be taken upon the said report;" which meeting was attended by our re-porter and others, but the secretary declined proceeding with the besides in the presence of those gentlemen, and who, after a short discussion amongst the shareholders, our the propriety of this step, were accordingly directed to retire. We regret, therefore, that we are thus prochaded from furnishing the distant shareholders with any account of the proceedings.

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marchalters on the propriety of this step, were secordingly direction to return who region; therefore, that we are thus precluded from furnishing the distant calaritation with any ascount of the proceedings.

ST. EATHARINE DOCK COMPANY.

A special general meeting of the proprietors of this company was held at the Dock-house, Tower-hill, on Tuesday, the 25th alt., when a very large namber of the college of th

GENERAL STEAM NAVIGATION COMPANY. The usual half-yearly meeting of the General-Steam Navigation Company took place on Tuesday, the 25th ult., at the office of the corporation, Lombard-street, at which there was a numerous assemblage of proprietors. The chair having been taken by Mr. John Willkin, a report from the directors, and the accounts for the year ending the 31st December last, were read, from which it appeared that the general condition of the corporation's affairs were highly satisfactory. The customary dividend and bonus being declared, thanks were voted to the chairman and directors for their continued exertions to promote the interests of the company, when the meeting separated.

IRISH WASTE LAND IMPROVEMENT SOCIETY.

the interests of the company, when the meeting separated.

IRISH WASTE LAND IMPROVEMENT SOCIETY.

The half-yearly meeting of this company was held at the King's Head Tavern, Poultry, on Tuesday, the 25th nit.—The Right Hon, the Earl of Dzvox took the chair on the occasion.—Mr. Firv (the secretary) read the directors report, as follows:—

IRISH WASTE LAND IMPROVEMENT SOCIETY.

The half-yearly meeting of this company was held at the King's Head Tavern, Poultry, on Tuesday, the 25th nit.—The Right Hon, the Earl of Dzvox took the chair on the occasion. First Company of the company of the chair of the occasion, conformably to the Act of Incorporation, the chair of the company o

perfect confidence in the noble Earl and the other directors, he had great pleasure in anoving a vote of stianks to them, for their excellent management.—
Mr. Wray seconded the motion, which was passed by acclamation.—The Noble Charmany returned thanks, and pledged his continuance of support to the objects of the society.

A separate vote of thanks was also moved to Col. Robinson by the Earl of DEVOX, and seconded by Mr. Smirn, and was passed by acclamation.—The Charmany gave overy praise to the assiduity and intelligence of the Colonel in the management of the society's affairs.—A pro forms vote of thanks to the mobile chairman for presiding then took place, when the meeting adjourned.

DEVON, and seconded by Mr. SMITH, and was passed by scenmanus.—
CHARBAND gave every praise to the assiduity and intelligence of the Colonel in the management of the society's affairs.—A pro forest wote of thanks to the scoble chairman for presiding then teok place, when the meeting adjourned.

HUNGERFORJAND LAMBETH SUSPENSION FOOT-BRIDGE COMPANY.

The half-yearly general meeting of the above company, was held at the offices, on Thursday, the 27th ult., WILLIAM HAWES, jun., Esq., in the chair. Mr. LAWBANGE (the clerk) having read the advertisement convening the meeting, the CHAIBANA said, previous to his reading the directors' report, he would beg to say a few words—this being the first meeting at which they could state, for a certainty, the time when the bridge would be opened to the public, and it would be observed by the report, that the directors proposed that, for four weeks, from the 28th March to the 22d April, the passage should be free from foil, at which latter period the whole of the works would be inished, when a toll of one half-penny would be collected from each passenger. He merely mentioned it, before reading the report, as he was aware an amendment would be proposed.—The Clerk then read the directors' and engineers' report, together with a statement of the receipts and disbursements; from which it appeared that the bridge would be opened on the 28th of March, being Easter Monday, although the works would not be quite complete by that day, but by the 22d of the ensuing month—up to which day the toll would not be demanded—the entire undertaking would be finished. Subsequent to its completion, a toll of one half-penny would be exacted from each passenger, leaving the consideration of a return ticke being given to a future period. All the eighth new shares had been applied for, and the earliest opportunity will be taken for obtaining the authority of Farliament, to improve the southern terminus. It is anticipated that the most advantageous results will follow the formation of the railway terminus, c

PROVIDENT CLERKS' ASSOCIATION.

The fourth annual meeting of the Benevolent Department of this association took place at the London Tavern, on Thursday evening, the 27th ult., and was exceedingly well attended by clerks in general.—The chair was taken by Journ Abel Shitti, Eag., M.P. (the treasurer of the association).

Mr. George Thomas (chairman of the board of management) read the report, which was of a gratifying nature. The annual receipts had increased, and the vested capital was 10,100l.; the loan system had worked favourably—the amount lent to member's in the yearwas 370l. The first annuity of 25l. to a member, and 15l. to a member's widow, would be granted in May, when the election would take place, and the event was to be commemorated by a public dimer at the London Tavero, at which John Abel Smith, Esq., M.P., had agreed to preside. No death had yet occurred amongst the assured members. The managers had agreed to continue their subscription to the Sanatorium for the next year, where the members could be admitted in case of illness, at one-half the usual charge to the public. Thomson Hankey, Esq., had been elected a trustee in the place of the late Jereminh Harman, Esq. The number of new members that had joined the society in the past year was 177, out of which 110 effected assurances in the benefit department, and 67 subscribed to the benevolent fund. Amongst the donations was 100l from James Alexander, Esq. The three years' subscriptions from the merchants and bankers having now closed, the managers were happy to asy, that the association was enabled to provide for all its expanses out of its own resources. The body of clerks generally were invited to exact themselves individually to introduce new members.

Mr. Plences (Bank director) moved the adoption of the report, which was seconded by Thomson Harkerx, Esq., and passed unanimously.

The meeting was also addressed by the worthy Chairman, Sir John Pirie, Bart, Mr. Gibart, Mr. Welch, Mr. Remell, Mr. Maitland, Mr. G. Thomas, Mr. P. N. Johnson, Mr. G

management of the Royal Naval and the London Annuity Societies, where the annuities are in much greater proportion. He still pressed his arguments, in spite of the conclusions come to by the actuaries, for he thought the calculations were so simple, that they only required common sense, and the knowfeige of the sale of three, to make them intelligible. He conclused by saying, that he had been the means of bringing upwards of 100 members to the society, and they mostly looked to him for seeing their interests protected. It was only at the urgent respect of a number of friends, that he had gone into the subject of their finastee, which were quite ample to allow an increased allowance to the widow and orphan, in whose behalf he begged to move the resolution, that the amount were considered in the prosent mode.—Mr. Kosten seconded the motion.

Capt. Barber deprecated frequent changes in an institution of that sort. It was not the way for it to maintain its present respectable footing in the public estimation. The directors had taken the responsibility of proposing, and the shareholders of giving, the widow 17t. odd, when the actuaries had advised 15t. 15s. He should move, as an amendment, that the annuities remain on their present scale.—Mr. Hickuens gave Mr. Sewell great credit for his efforts on the part of his friends; but he would ask why they had spent 500t for the actuaries' report? Was it not to guide them in their allowance? He had every regard for the widow and orphan, but he would not advise over payment, or they should soon come to 10t. He would second the amendment of Captain Barber.—The Chairman said the directors had left the matter in the hands of the members present.—The chair resolution on rule 12 was adopted; and as respected altering the rule 29, that was postponed till the next meeting, notice thereof to be given in the circular to the members.—Mr. Sewell, then moved, and Mr. Hichens seconded, a vote of thanks to the chairman, which was carried by acclamation, and the meeting adjourned.

NORTH WALES RAILWAY.

The importance of this line of railway, as connected with the progressing mineral districts of North Wales, and as opening additional and improved means of communication with similar districts of Ireland, has induced us to select a few of the more prominent points for insertion, that our readers may be better acquainted with the project: the more especially so, as the line has lately become conspicuous in the market—the shares having been allotted, and already commanding a premium. The reasons assigned for this favourable reception, appear to be the important advantages it promises to the commercial interests of North Wales and the agricultural districts of Carmarthenshire. It also will afford manifest facilities for shipping the enormous export of slates at Porth Dynllaen. The copper, lead, and other mines, and the valuable stone quarries at the Rivals, recently opened by a Liverpool company, contiguous to the proposed line of railway, will also have thrown open for their produce this advantageous means of transit to the southern markets, as well as an immediate railway conveyance to those ports in direct communication with Liverpool, and consequently with large foreign markets, as well as those of Scotland, and the northern and midland counties of England. It was said by Sir Robert Peel, or his introduction of the tariff, that the importation of cattle from Ireland increased in 20 years from 17,000 head into all the English ports, to 100,000 head into Liverpool alone. The extensive chain of railways now forming in Ireland, and the completion of the proposed line of railway between Kingstown and Wicklow, and Waterford and Wicklow, will cause the Irish cattle tradite, which at present enters England by Liverpool and Bristol, to be concentrated on Porth Dynllaen, the sea voyage between Wicklow and Porth Dynllaen being shorter by one-half than between those ports which now enjoy the Irish cattle tradic. The course of this line by the engineer's report and sections, is exceedingly favourable

ON THE PREVENTION OF STEAM-BOILER EXPLOSIONS. Age. Serit. E., 22, M. C. (the treasure of the association) and the vested early and the vest On the occasion of the late disastrous accident at Manchester, a letter was, as our readers may remember, written by Mr. Taylor, Lecturer on Chemistry in Guy's Hospital, to Mr. Chapman, the Coroner, who pre-

IRISH RAILWAYS. In accordance with our promise, we return again to the subject of railnunnication in Ireland. In a former number we gave a sketch of the different lines projected in the North; and, therefore, our task is limited, at present, to a description of those projects in other parts of Ireland—the majority of watch have been before the Board of Trade, and been either recommended or reported against by that body. Nothing could give us greater pleasure than being able conscientiously to recommend to the notice of English capitalists, all the Irish Railway schemes now before the public; for, we are satisfied that nothing would tend more to raise

Ireland, from her low estate, than opening up the country by means of railways, and thus giving our Western countrymen all the facilities of comparatively free international communication. But this cannot be, so long, at least, as our present system exists; it is

not merely necessary that a projected line should be beneficial to the country through which it passes, and the towns at either termini, but also as a mercantatile investment, that it could be calculated on to pay. The majority of the lines, we formerly noticed, we considered as good investments; the Dublin and Cashel, so far as we can judge at present, will yield a fair return to the speculators. The Dublin and Belfast Junction promises also a good return; and the Amagh, Coleraine, and Portrush Line, we have every reason to believe, considered especially with reference to the density of the population—the richness of the soil—and the flatness of the county—will not be inferior, as a commercial speculation, to any railway in Ireland. So far, our task is pleasant; but we must now reverse the picture, and notice some railway projects, which neither considered in themselves, nor in the manner in which it is attempted to get them up, deserve support. Of those in the North Western District, the first that claims our attention is one projected from Enniskillen to Sigo—capital, 400,000/.—37 miles long. The prospectus states that "it will pass through a very productive and populous country, nor has there been any line projected in Ireland that will be of greater public utility—"that the traffic immediately available on the line is very considerable, and the levels of the country are favourable to the undertaking, the line can be constructed at moderate expense, and that there can be no doubt but it will prove highly remunerative to the shareholders." Now this statement is very far from the truth; it will be of little public utility—there is no traffic on the line more than sufficient to support a common stage car—the country is exceedingly difficult, and no railway could be constructed with either favourable gradients, or at any thing approaching to reasonable expense.

If shareholders can be found, which we doubt, to invest their more vin not merely necessary that a projected line should be beneficial to the coun-

line more than sufficient to support a common stage car—the country is exceedingly difficult, and no railway could be constructed with either favourable gradients, or at any thing approaching to reasonable expense.

If shareholders can be found, which we doubt, to invest their money in this hopeful scheme, it would remunerate some one, but not those who subscribe for shares. We should like to see the sections, traffic tables, and engineer's report; does he pledge himself to the truth of the statements in the prospectus, as to the favourable levels and great traffic? We hope not.

A railway in this direction is not required; the country through which it is proposed ig mountainous, uncultivated, and very thinly populated. There is no trade or produce to carry, and the traffic of Enniskillen, and the lands on the borders of Lough Erin, go by the excellent water carriage on the lough to Ballyshannon, or will go by rail to Derry. Any one who states that a railway is possible through the country described, at a reasonable expense, and that it would be likely to prove remunerative to the shareholders, must either be guilty of a wiful misrepresentation, or has never seen the country, and any proposition for establishing a railway here is a delusion—no merchant, either in Sligo or Enniskillen, has allowed his name to be placed in the prospectus.

Sligo and Shannon Junction Railway. This is a short projected line, from Lough Allen to Lough Gill, eleven miles, and will make Sligo the port of that noble river, the Shannon, on which the Government have expended 700,000., in rendering it navigable for steamers of 150 horse power. There is, at present, no outlet for the trade but Limerick, distant 160 miles, from Lough Allen i; it also passes through the Arigna iron and coal field, the traffic on this line will, in our opinion, be much greater than the projectors calculate. Let us now look to the western part of Ireland. The only railway approved of in this part of Ireland, is one to Galway, through Athlone, starting from the in its route, which is a sufficient justification for the bend to that place; but, why the other has been disapproved of, we are at a loss to conjecture. We can well understand why the branch from Mullingar to Athlone should be lopped off, but why the line to Longford should be, we cannot see the slightest reason. By rejecting this to Longford, all hope of an extension to Sligo, a far more important part than Galway, is lost, and the towns of Carrick on Shannon and Boyle, for an extension from Athlone would be a directly competing line to the Shannon, on which, as we before would be a directly competing line to the Shannon, on which, as we before stated, the Government have expended a large sum in rendering navigable, and they would be bound to oppose the line thus competing.

By the present decision, if final, a district of country, from Westport to Balbriggan, the entire breadth of Ireland, and from Enniskillen to Athlone,

one quarter its length, is shut out from the benefits of railway communi-nication, and this surely should not be. We hope that Parliament will reverse the decision of the Board of Trade, and allow the Dublin and Long-

nication, and this surely should not be. We hope that Parliament will reverse the decision of the Board of Trade, and allow the Dublin and Longford line to pass—minus the branch to Athlone. Neither of those lines present any engineering difficulties, except passing the Shannon at Athlone, and the Such at Ballinasloe, and these are more expensive than difficult, both lines ought to pay, if properly and economically constructed.

The southern district now claims our attention; and the first in place, as in importance, is the extension of the Cashel from Tharles, on to Cork. We have no hesitation in prophesying, that Cork will be the packet station for America—we may live to see it. Its magnificent harbour, its splendid establishments, render it peculiarly fit for this purpose, and sooner or later, the American packet station it must become: when this takes place, and it is only a question of time, it will be similar in its character to the London and Holyhead, of which it would, in fact, be the extension, but not so difficult to construct, and passing through a thickly populated and well-cultivated country, that it ought to pay them 8 per cent, does not admit of a doubt, that it will pay now a reasonable per centage is equally certain. What would add greatly to its trade and utility would be the construction of that portion of the Direct Limerick and Cork (rejected), between Limerick and Charleville: this would give a direct line between Limerick and Cork, and we believe the portion referred to would pay for itself, it runs through the richest land in Ireland, and there is no engineering difficulty.

The whigs wanted to get 2,500,000l for the line from Dublin to Cork, to be constructed under the superintendance of the Irish Board of Works, (save the mark!) but Parliament very properly refused the job, and left the field open to private enterprise.

To this invaluable undertaking, the Limerick and Waterford stands

(save the mark!) but Parliament very properly refused the job, and left the field open to private enterprise.

To this invaluable undertaking, the Limerick and Waterford stands next in importance, and an important line it is without doubt; the portion from Limerick to Tipperary will carry all the Dublin traffic, and there is no doubt but the produce of the interior will be brought to Limerick by it for shipment; the traffic to Waterford from Clonmel is at present very great, the land is rich, populous, and well cultivated. We look on this as a very desirable investment. The Cashel Company oppose this line strongly, or rather they wish to substitute a line of their own, going over the same ground, from Tipperary to Limerick, and leaving the other portion alone: nd, from Tipperary to Lim erick, and leaving the other p this is not quite fair—to select the best paying portion, and leaving the country without the other part, such policy as this will not answer; fair play must be their motto, if they wish to succeed. What has become of the extraordinary pamphlet, published concerning this Limerick and

Waterford line?

Limerick to Ennis has been abandoned for the present, but it is a good line and easily made.

Kilkenny and Waterford has been approved of, and justly so, the trade in coal, lime, &c., will be very great, and the carriage of agricultural produce will be a good source of revenue, as will also be the passenger traffic, the country is very favourable for a railway; the rails to be used are "wooden ones," with the "Proser guide wheels;" this is an experiment, should it succeed, great good will be gained, and if it should fail, nothing will be lost, except to the shareholders. The Kilkenny junction has been postponed, why, we cannot imagine; by this postponement, the Waterford and Kilkenny folk are deprived of a speedy communication with the metropolis, this line should, in the first instance, have been joined with the Kilkenny and Waterford, and under the one management, they would then pay well.

What in the name of all that is wonderful are the projectors of the Waterford and Kinestown the Waterford are the projectors of the Waterford and Kinestown the Waterford are the projectors of the Waterford and Kinestown the Waterford are the projectors of the Waterford and Kinestown the Waterford are the projectors of the Waterford and Kinestown the Waterford and Kinestown the Waterford are the projectors of the Waterford and Kinestown the Waterford and the carriage of the projectors of the Waterford and Kinestown the Waterford and the carriage of the projectors of the Waterford and t

in the name of all that is wonderful are the projectors of the Wasand Kingstown, the Wexford and Carlow, and the Wexford, Car-

low and Dublin Junction Railway fighting about, it would appear that the poorer the country the greater the number of schemers, the two lastmentioned run parallel, from Carlow (Cashel, R.), through N. T. Bung and Euniscorthy to Wexford, but what they are to carry puzzles us very much, the trade of Wexford is almost nominal, and the passenger traffic less; the country very poor, thinly populated, and difficult. The most important town in the county New Ross is not touched on by either, what the object of the companies can be we do not know, unless it be to bring down the Carlow pigs to the Wexford steamers, however, somebody will be benefit by it, certainly not the shareholders.

The Waterford and Kingstown begins at Waterford, passes through New Ross, Enniscorthy, the villages of Stones and Gorey, and on by the country poor and difficult to a degree, it never can pay.

Cork and Bandon is a line of merely local importance, it should, however have been carried round by Kinsale, as proposed by Vignolles, this line is difficult and cannot pay.

Two other projects have just come out—viz, from Cork to Killarney, and from Killarney to Tralee, Limerick, Nenagh, and Roscrea, where it joins the Dublin and Cashel; these are, in point of fact, but one line from Cork, through the county Kerry, Limerick, and Tipperary, winding like an enormous serpent through towns and villages without any specific object in view, but to string them on a line, and without regarding the existing railways. We are really surprised at such projects at these being brought forward, they injure legitimate enterprise, and prevent those, who burn their fingers in them, from contributing to really good projects, and retard the improvement of the country in a corresponding degree.

The country is exceedingly difficult in Kerry, particularly in order to obtain a favourable gradient, some of the cuttings and embankments should be at least 200 feet high, and tunnels without end, the line as projected, or indeed any line here is, in point of fact, impracti

iron in reverberatory furnaces, and the manner in which the same are to be carried into effect, is fully described and ascertained in the following statement. In the manufacture of malleable iron from pig or refined iron, it has long been the custom to throw hammer slack, roll scale, red ore, calcined iron stone, or other suitable material, consisting principally of oxide of iron, into the puddling furnace, for the purpose of protecting the sides and bottom thereof, and with a view to feed or add to the weight of the product, owing to the decomposition of their oxygen by the carbon contained in the pig-iron. The additional yield has, however, hitherto been only partially effected, owing to the small quantity of carbon contained in the pig-iron generally used for the purpose. The patentee's improvement, in this respect, consists in mixing the hammer slack, roll scale, red ore, calcined iron stone, or other oxide, in a finely pulverized state, with a proportion of finely pulverized charcoal, coke, or other suitable carbonaceous be carried into effect, is fully described and ascertained in the following in this respect, consists in mixing the hammer slack, roll scale, red ore, calcined iron stone, or other oxide, in a finely pulverized state, with a proportion of finely pulverized charcoal, coke, or other suitable carbonaceous matter (which should be as free as possible from sulphur), and introducing the mixture into the furnace before, or along with, or immediately after, the charge of pig or refined iron. The mixture of ore and carbonaceous matter is, from time to time, turned over, till the iron is melted, and both are then worked together in the usual way. The process is similar to that described by Mr. William Neale Clay, in the specification of his patent for improvements in the manufacture of iron, enrolled the 30th September, 1840, but the proportions I use vary from 17 up to (but not including) 28 per cent., in weight of carbonaceous matter to the ore or oxide, according to circumstances, whilst his invention is confined to combining carbonanaceous matters in quantities not less than 28 per cent. by weight of the iron ores employed. The proportionate weights of carbonaceous matter and ore, or oxide, which, within the limits above named, the inventor uses, depend upon the quantity of carbon or oxygen they respectively contain, the description of pig-iron used with them, and the relative proportions of pig iron to the mixture; he has found the following proportions give very excellent quality and yield of iron—to 480 lb. of No. 4 pig-iron, the inventor adds 84 lb. of Lancashire homatite ore pulverized, and mixed with 18 la larging the present of carbonaceous matter.

excellent quality and yield of iron—to 480 lb. of No. 4 pig-iron, the inventor adds 84 lb. of Lancashire hematite ore pulverised, and mixed with 20 lb. of powdered coke.

If No. 1 pig-iron be used a still less proportion of carbonaceous matter will suffice, but if the charge of pig No. 4 be reduced to 420, and the ore increased to 180lb., the coke should be 48lb. The inventor does not limit himself to the definite quantities, nor the precise proportions of iron, carbonaceous matter, and oxide here given, as they will necessarily differ according to circumstances, but as a general principle, if the pig-iron to be used be of a very fluid or highly carburetted description, such as is generally designated as No. 1 in the trade, then the proportion of carbonaceous matter to roll secale, red ore, or other oxide of iron, should be proportionately less than if white or plate iron be employed, and the proportion of carbonaceous matter should a vary according to the relative proportion of ore or oxide used with the pig iron, it being advisable to use a larger relative quantity of carbonaceous matter with the ore or oxide when the pig is comparatively reduced in weight to the relative proportion of he weight of pig iron charged, the mixture amounts in weight to one-fourth of the weight of pig iron charged, the mixture should be introduced into the furnace sooner than the pig iron, and turned over until it begins to adhere to the workman's "rabble" or tool, when the pig may be charged, but smaller proportions charged with the pig iron will generally come round by the time it is melted. The inventor does not prefer in any case introducing the mixture after the pig iron. The second improvement consists in the addition of clay, argillaceous ironstone, or other substance containing alumina to those ores or oxides which, manufactured by the aid of carbonaceous matter into malleable iron in reverberatory furnaces, produce iron of the quality usually denominated red-short. The clay or other substance to be used should, like the o will emit continued showers of darkish red cinder sparks, and if too little be added the iron will retain some of its red-short quality. The inventor has found the ground-fire clay froe. Worsley, near Leeds, very suitable as a substance for effecting this improvement. The last improvement consists in combining a portion of the tap or flue cinder of puddling or ball furnaces with a portion of clay, chalk, carbonaceous matter, and rich iron ore, or some of these substances, and manufacturing them, either with or without pig or refined iron, in reverberating furnaces, into malleable iron. The same process of pulverizing, drying, and mixing the several materials, as well as their treatment in the furnace, as before described, must in this case be pursued. To 150 lb. of tap cinder, containing 71 per cent. of protoxide of iron, add 150 lb. of Lancashire hematite ore, 20 lb. of ground Worsley fire clay, 20 lb. of chalk, and 100 lb. of coke dust. The inventor does not, however, limit himself to these or to any proportions of the constituents, when tap or flue cinder are employed as above; nor does he necessarily use iron ore with the cinder, though it is more advantageous to do so.

ore with the cinder, though it is more advantageous to do so.

The inventor does not claim to have discovered the manufacture of malleable iron in reverberatory furnaces, either with or without a portion of pig, or scrap, or refined iron, nor the advantage of pulverizing the ores and carbonaceous matter, but he claims, as his first improvement, the manufacture in reverberatory furnaces, in manner hereinbefore mentioned, of malleable iron, by means of ores and carbonaceous matter mixed in proportions, limited, as before, defined and combined with a portion of pig or refined iron. In his second improvement, he does not claim to have discovered the advantage of using a portion of clay or argillaceous iron stone in the manufacture of pig iron from such ores, that having long been done in the manufacture of pig iron from such ores, but he claims the use of clay as an ingredient to be employed in a pulverized state, mixed with certain ores and carbonaceous matter, also pulverized for the manufacture, both with or without pig and refined iron, of malleable iron in reverberatory furnaces. In his last improvement he does not claim to have first applied a portion of tap or flue cinder, or other silicate of oxide of iron with lime or carbonace of lime and rich iron ore, clay, and carbonaceous matter, all these have been long used in the manufacture of pig iron, but he claims the manufacture of malleable iron from the combination of those substances, pulverized (both with and without pig or refined iron in reverberatory furnaces) as before described.

Invested Delike Junction Railway fighting about, it would appear that mentioned run parallel, from Carlow (Cashal, R.), through N. T. Burg and Emiscordy to Weerford, but what they are to carry purales us very mentioned run parallel, from Carlow (Cashal, R.), through N. T. Burg and Emiscordy to Weerford, but what they are to carry purales us very mentioned run parallel, from Carlow (Rose in not touched on by dither, what the object of the conquise case by we too he know, make it is to brigge the control of the carry purales us very the control of the contr

GOLD MINE IN AMERICA.—We are informed that a most valuable discovery has recently been made on the estate of an English gentleman in Franklin county, Virginia, where, according to our information, a gold miss, of surprising richness, was accidently met with. We believe we shall shortly be in possession of some particulars, to which we shall readily give publicity.

of surprising richness, was accidently met with. We believe we shall shortly be in possession of some particulars, to which we shall readily give publicity.

**RAISING SUNKEN VESSELS.—We are happy to perceive that the invention of Mr. Austin, which we noticed some short time since, as intending to apply the well-known principle of the buoyancy of inflated bodies, is the purposes of raising sunken vessels, is now practically illustrated, by model, at the Royal Polytechnic Institution. Mr. Phillips, the resident egineer, describes its principles and chief designs, and the success attending the experiments on a small vessel, previously sunk, appeared to elic satisfaction. With the view of establishing the importance and fessibility of the objects of the Universal Salvage Company, we may meetion, that operations for raising wrecked property are, at this momen, about being conducted in the United States; an enterprising company having been formed at Baltimore, and actually started for the island Marquerita, near Cumana, with a vessel, diving-bell, submarine armoan and the various other equipments necessary for such an expedition, for the purpose of recovering a military chest and other valuables sunk in the Spanish 80-gun ship, which foundered in 1815, in ten and a half fathouwater. The hull lies on a hard sandy bottom, well known to the fishermen, and the Venezuelan Government has granted permission to sear for treasure on condition of receiving 5 per cent. of all recovered; and, she had the military chest on board, and treasure to a considerable amountless the armour, which is heavy, covers the money, so as to prevent removal, there appear to be fair hopes of realising large profit.

We understand that an iron steamer of nearly 300-horse power has considerable and the property of the surprise of the prevent we made the property in the property of the prevent we made the property of the prevent we made the property of the prevent we made the property of the prevent what a property of the prevent when the property a

removal, there appear to be fair hopes of realising large profit.

We understand that an iron steamer of nearly 300-horse power has c menced being built by Messrs. George Lunell and Co., ship-builders engineers, at Bristol, which is to embrace all the new improvements tant; she is to form one of the extensive fleet of the Bristol General St Navigation Company, who have steamers constantly plying between above place and the various Irish and many other stations. This comp have adopted the use of Smart's Elliptical Convex Propellers, and it is pected the vessel in question, having this much approved adaptation, the determined intention of the eminent builders to outvie, if possible, the most perfect, will produce such a boat as may justly entitle them the name they already bear, and rank them among the first builders engineers in this or any other quarter of the globe.

X INCREASING ADOPTION OF IRON.—We find that the preference for in the construction of vessels is daily becoming more general and decour accounts from all quarters intimate this growing preponderance in your of metal over wood; in Liverpool there are innumerable inqui for iron vessels, both for sailing and steaming purposes, and the dem has within the last few weeks been so peremptory and incessant, that entertain do doubts but that, at the close of the year, the greatest difficult between the property of the property of the construction of the property of the property of the construction of the property of the pro

CHESTER AND HOLYHRAD RAILWAY.—The contract for the first eigl out of Chester has been let to Mr. Bates, at 119,000L; and Messra. I and Cropper have the Penmaen Vach tunnel for 60,000L; these controlled a total amount of nearly 2000 yards tunnelling.